



— BUREAU OF —  
RECLAMATION

# **Klamath Project Temporary Operating Procedures**

**January 20, 2023**

# Presentation Outline

- **Technical input received**
- **Monitoring Information**
- **Current Forecasts and Reclamation Interpretation**
- **Temporary Operating Procedures**
- **Schedule for Input and Action**
- **Supplemental Information**



# Technical Input Received – Concepts for Improving ESA Compliance

## Diversion reduction strategies

1. Halt out-of-basin diversions to the Rogue River basin
2. Halt diversions from the Keno Impoundment

## Supply augmentation strategies

3. Initiate out-of-basin diversions into Klamath River from Lost River
4. Consider planning for a lower volume pulse/flushing flow from Upper Klamath Lake

## Operation modification strategies

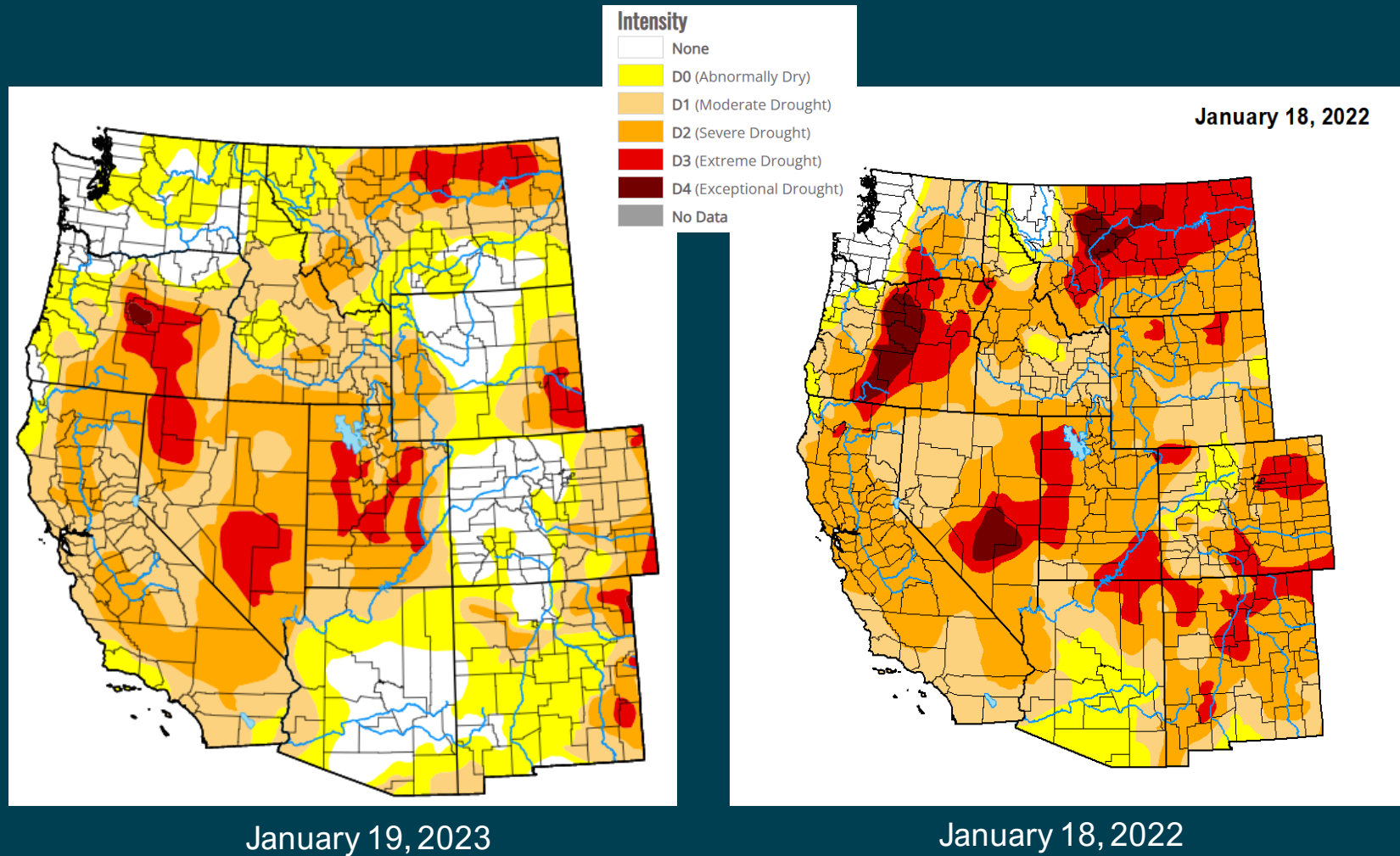
5. Borrow or exchange water with KRRRC (former PacifiCorp reservoirs)
6. Reduce Link River Dam outflows to make better use of storm events
7. Establish higher end-of-season elevation requirements for Upper Klamath Lake



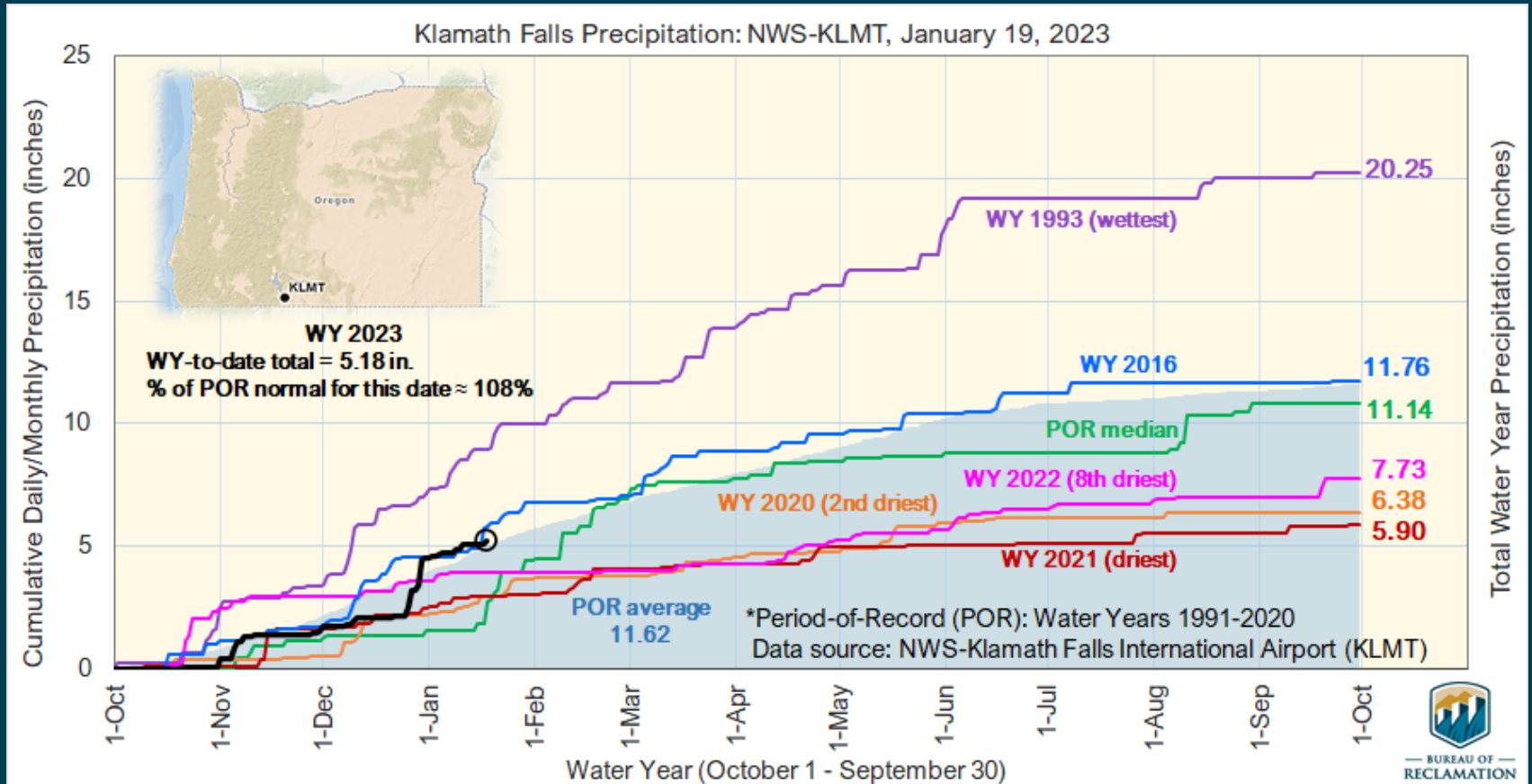
# Monitoring Information



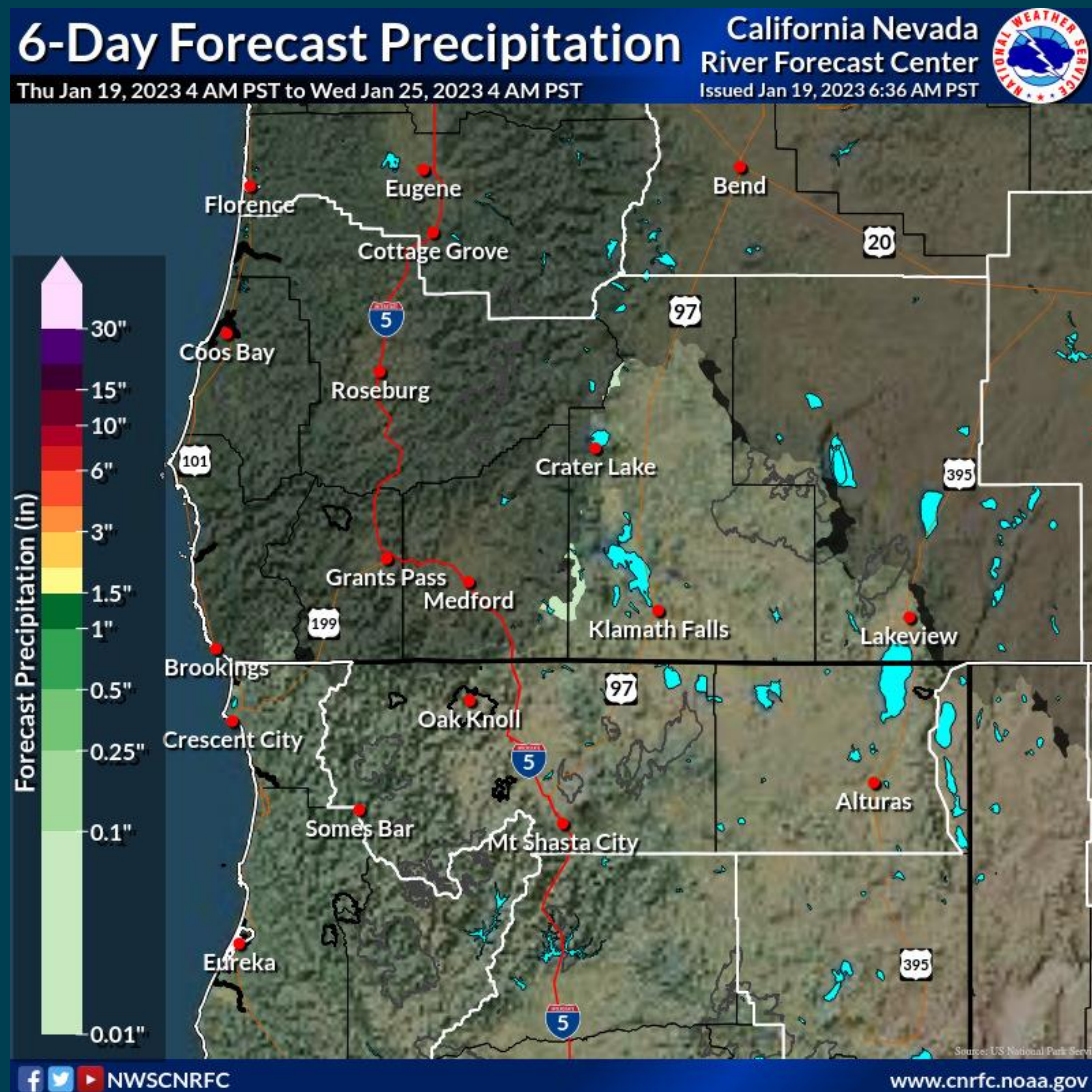
# United States Drought Monitor – West Region



# Klamath Falls Airport Met Station – National Weather Service

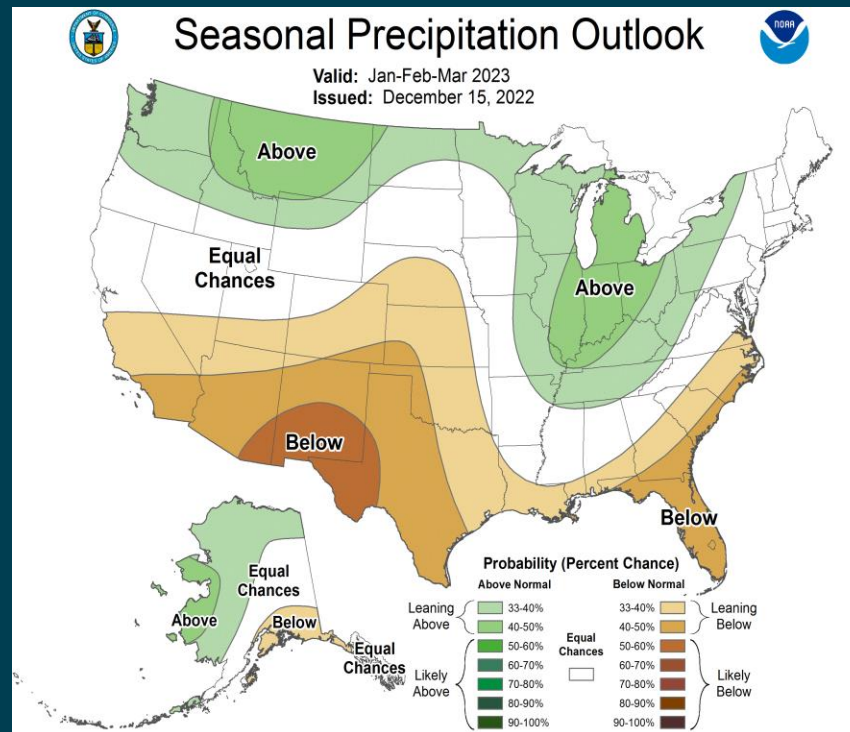
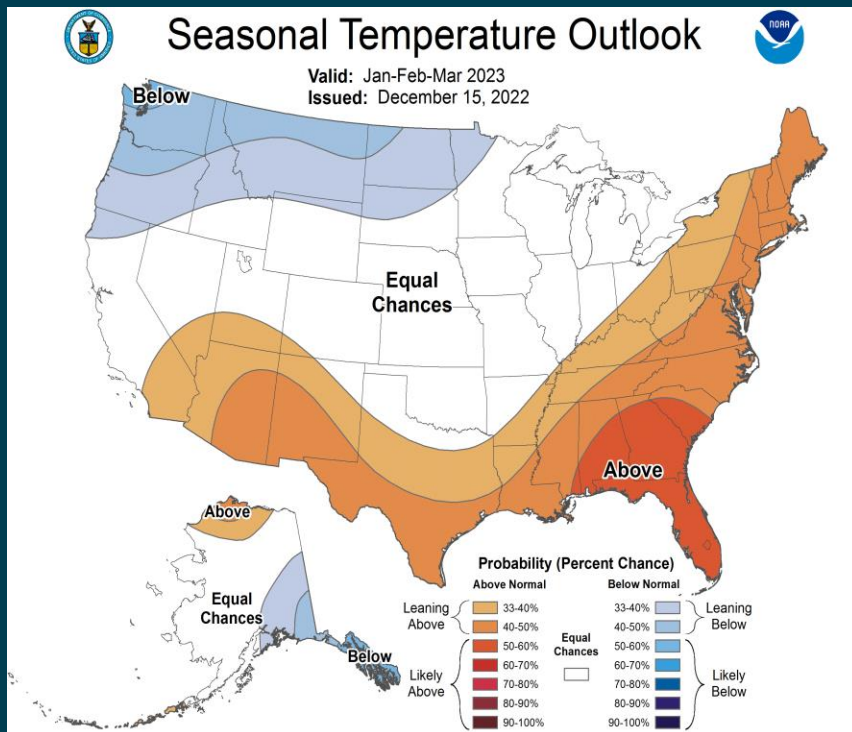


# 6-Day Precipitation Forecast – California Nevada River Forecast Center Accumulated Total



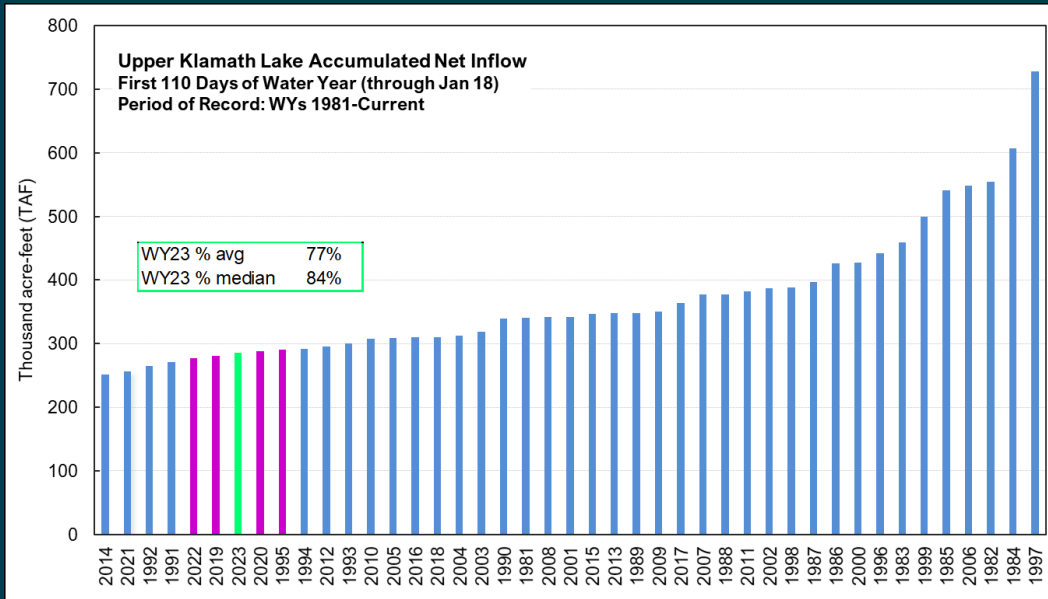


# January-March Weather Outlook

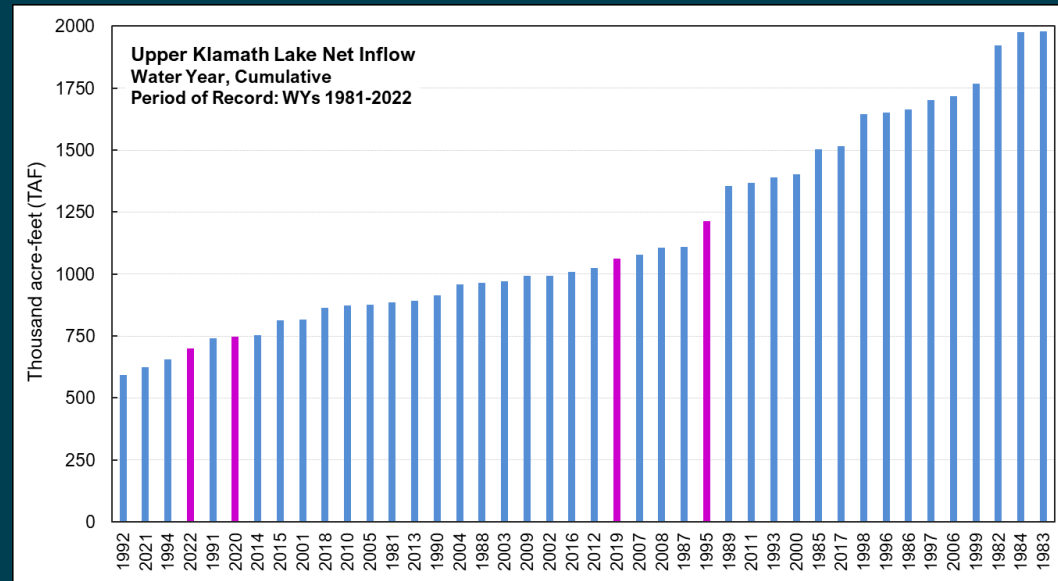




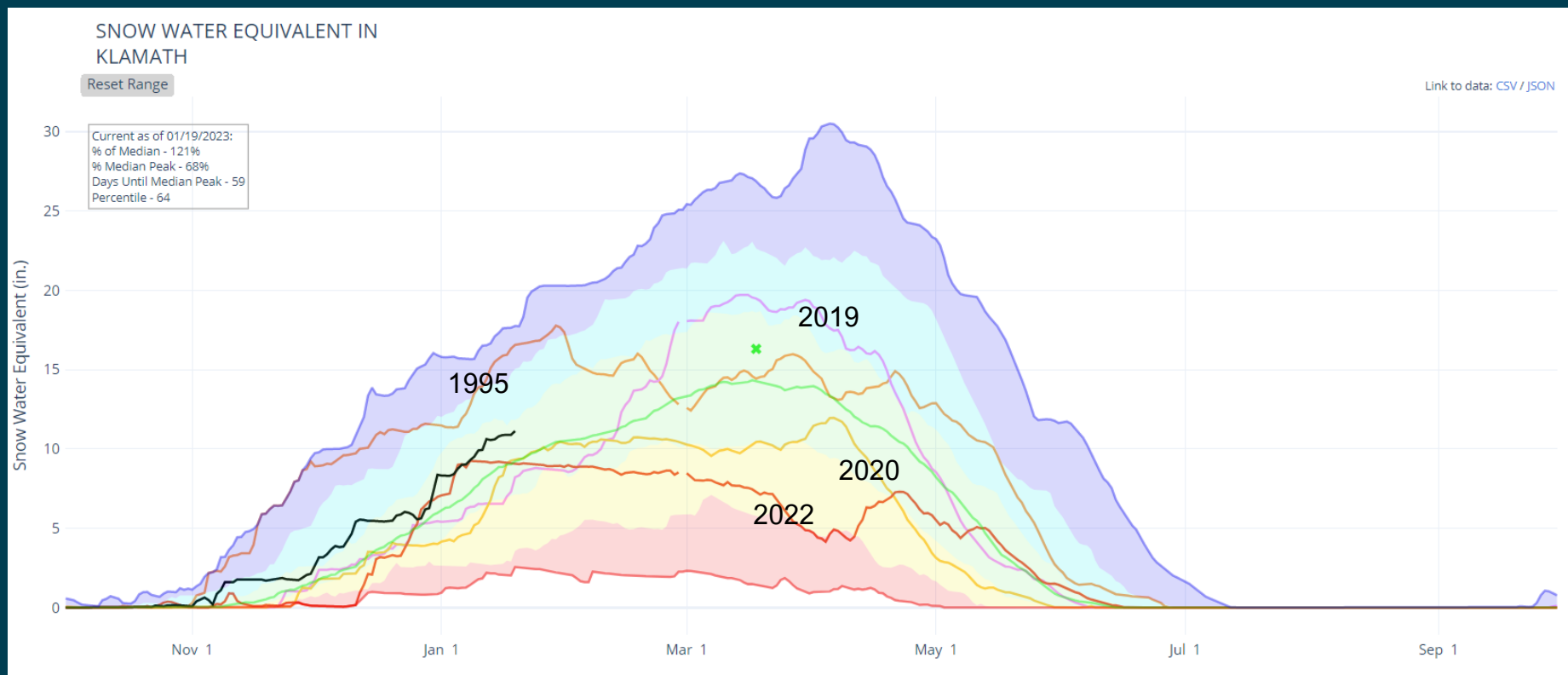
# UKL Net Inflow Water - Year 2023 & Nearest Neighboring Water Years for Net Inflows to-Date



WY2022/2023 data are provisional and subject to revision

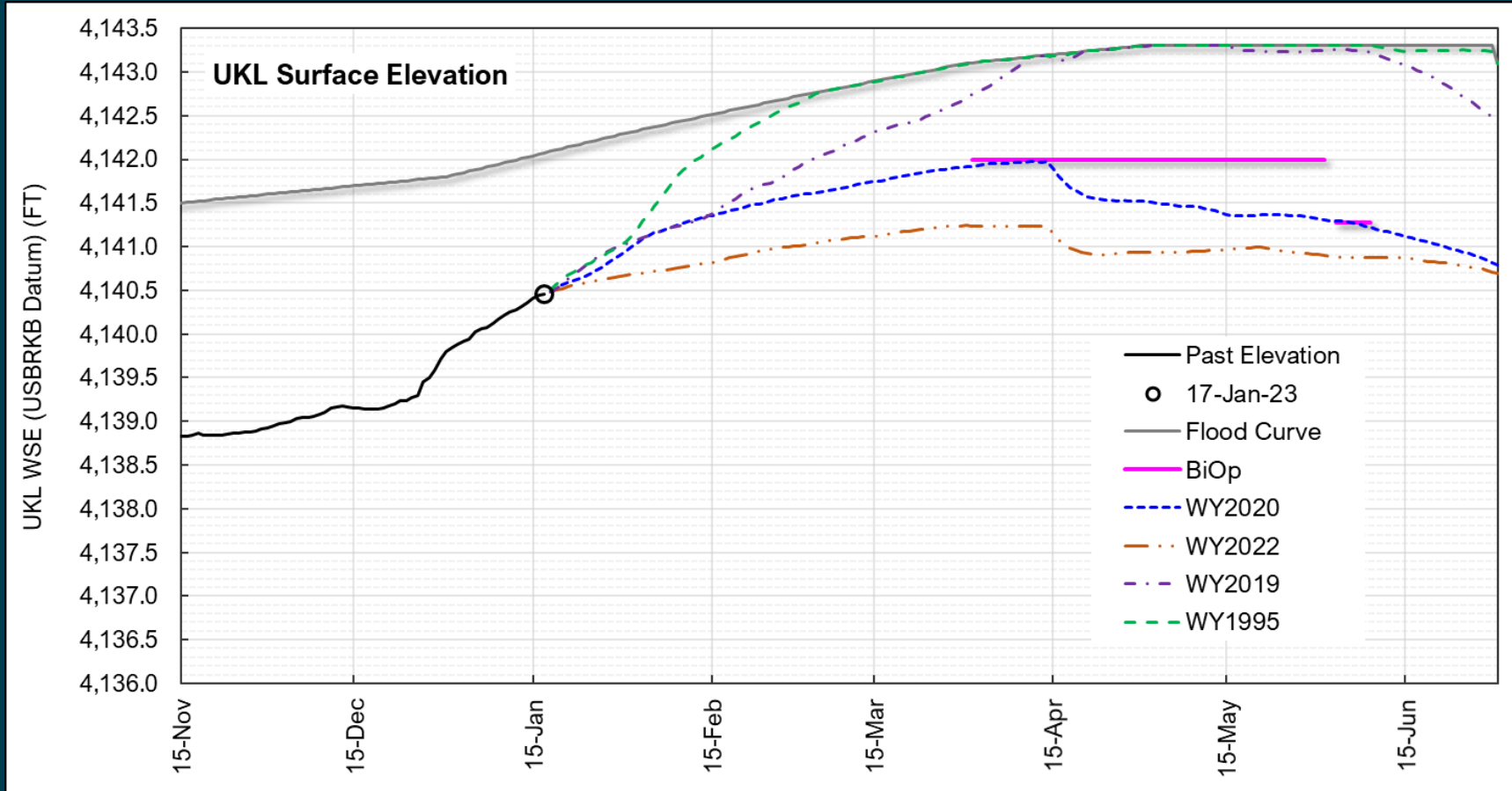


# NRCS Upper Klamath Basin Snow Water Equivalent (SWE) Water Year 2023 & Nearest Neighboring Water Years for Net Inflow-to-date

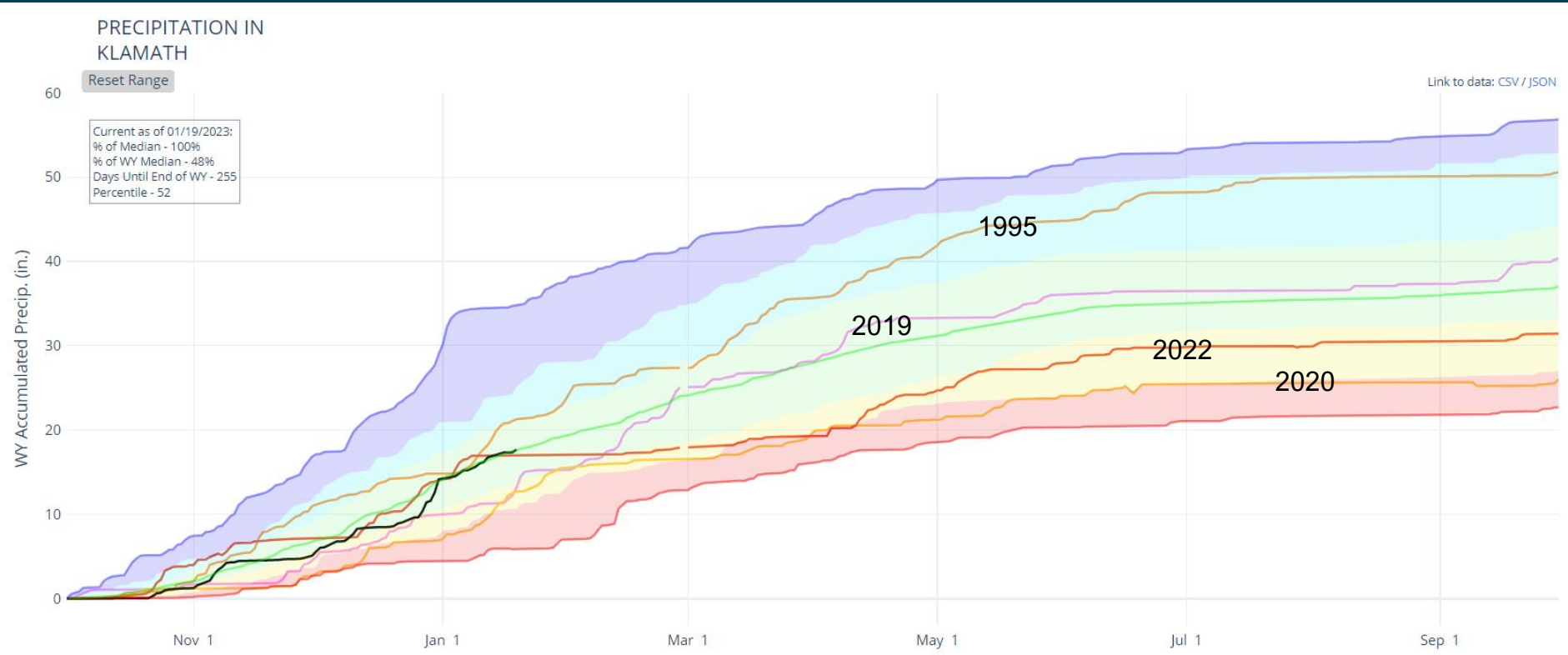


# UKL Surface Elevation

## Nearest Neighboring Water Years for Net Inflows to-Date



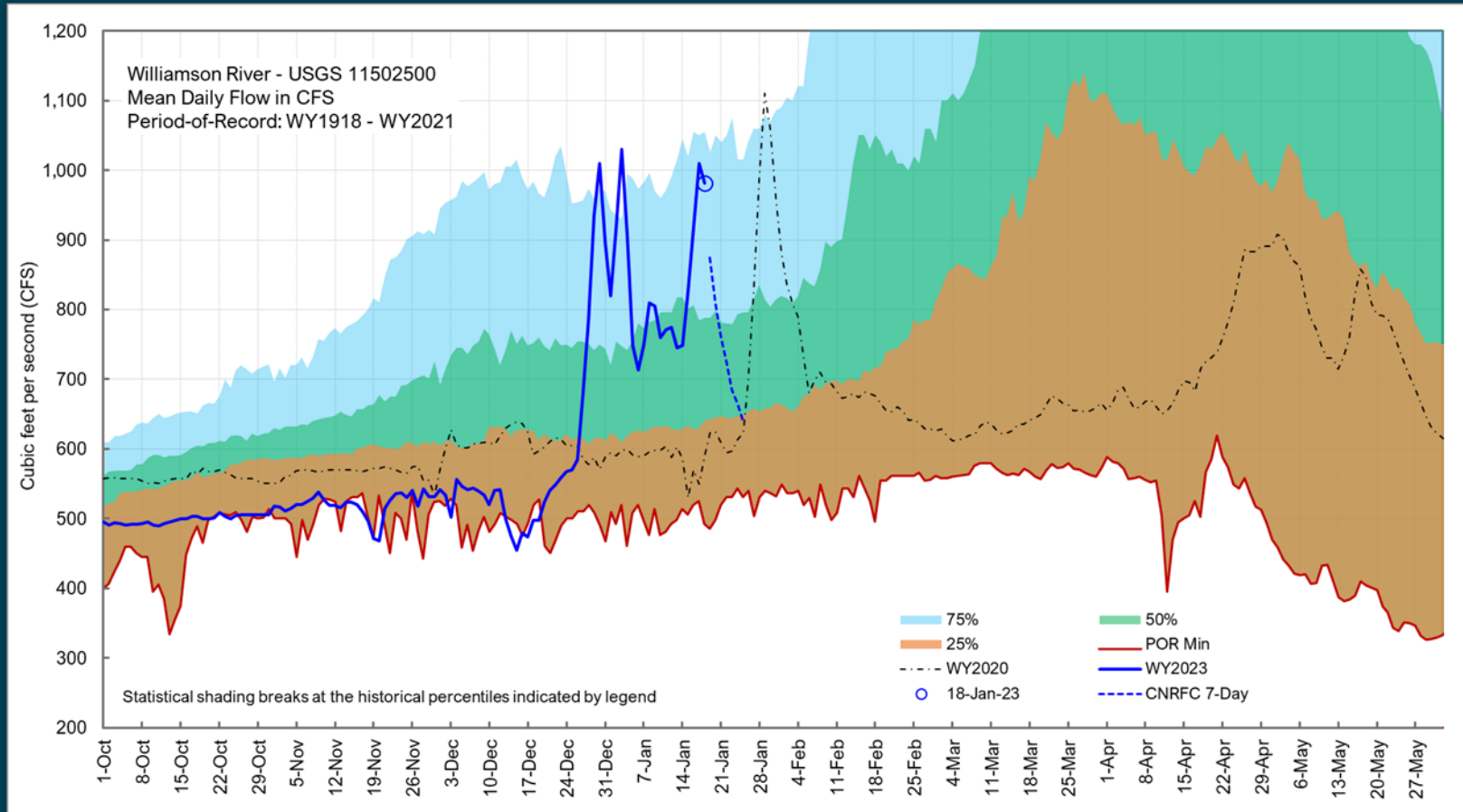
# Upper Klamath Basin Precipitation - NRCS Water Year 2023



Statistical shading breaks at 10<sup>th</sup>, 30<sup>th</sup>, 50<sup>th</sup>, and 90<sup>th</sup> Percentiles  
WY2023 displayed as black trace



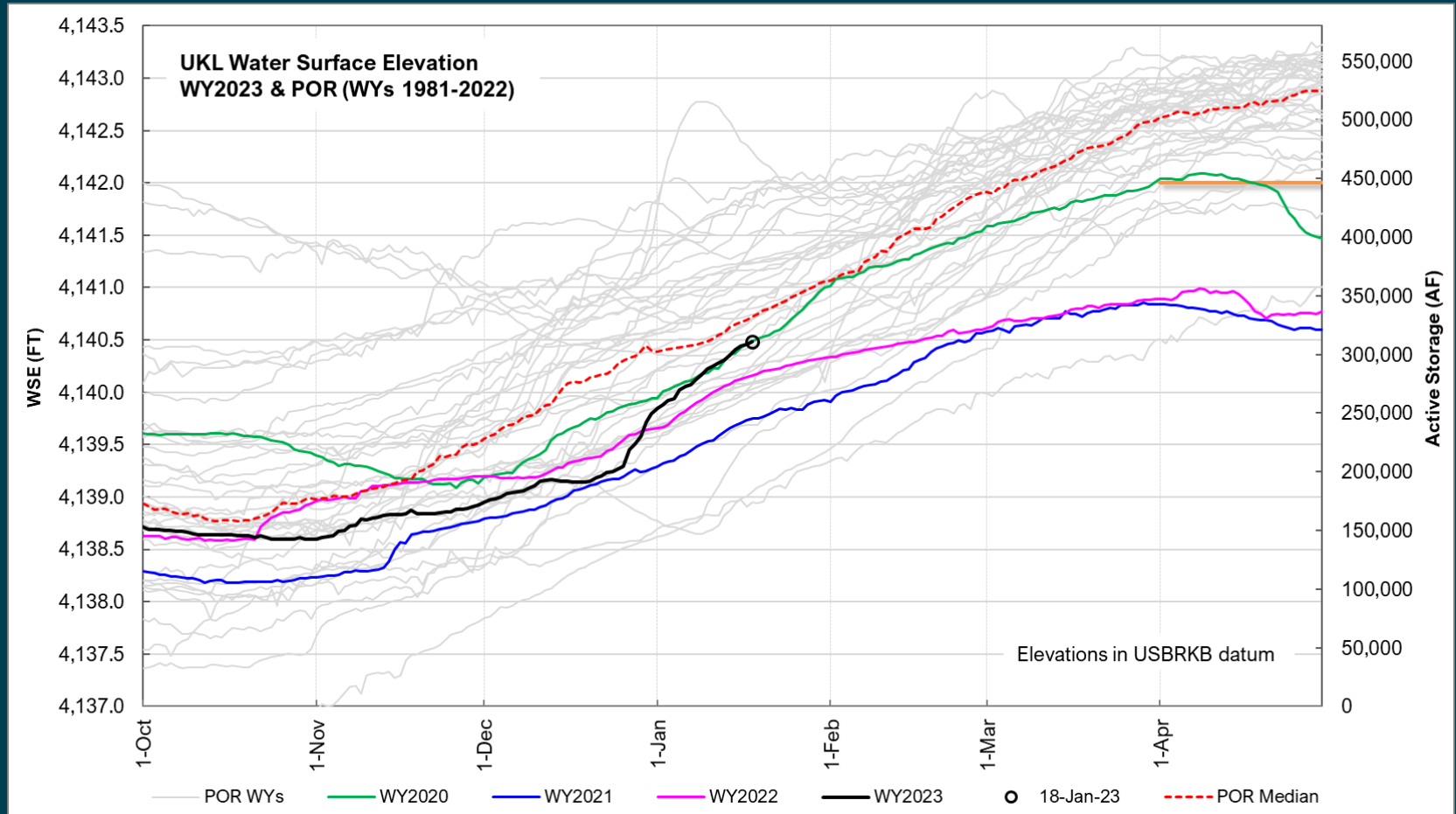
# Williamson River - USGS 11502500



WY2022/2023 data are provisional and subject to revision



# UKL Water Surface Elevation Water Year 2023 & Period-of-Record-to-Date



WY2022/2023 UKL water surface elevation observational data are provisional

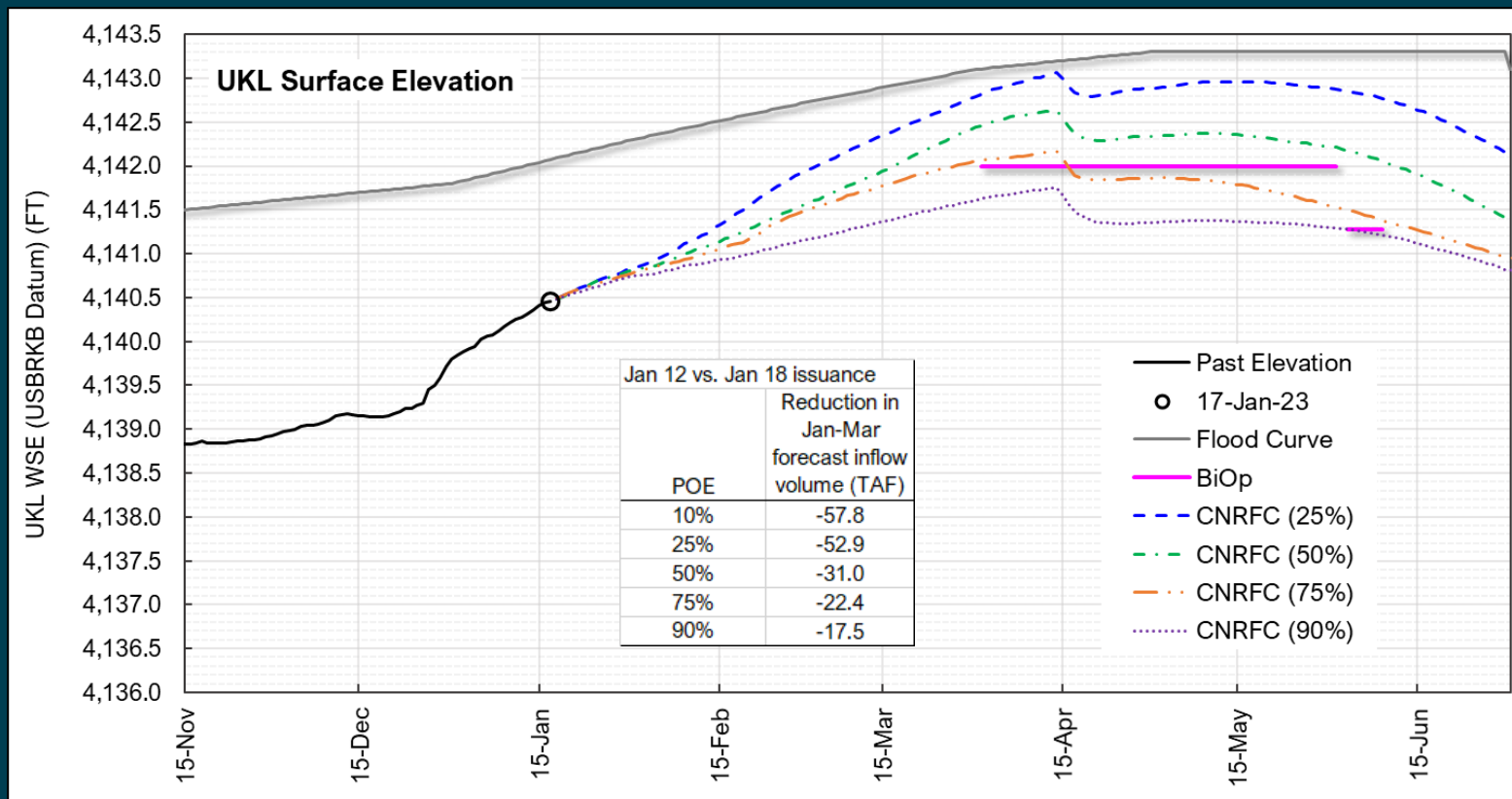


# Long-Term Upper Klamath Lake Inflow and Operations Forecasts





# UKL Water Surface Elevation – CNRFC Upper Klamath Lake Net Inflow (UKLNI) Forecast

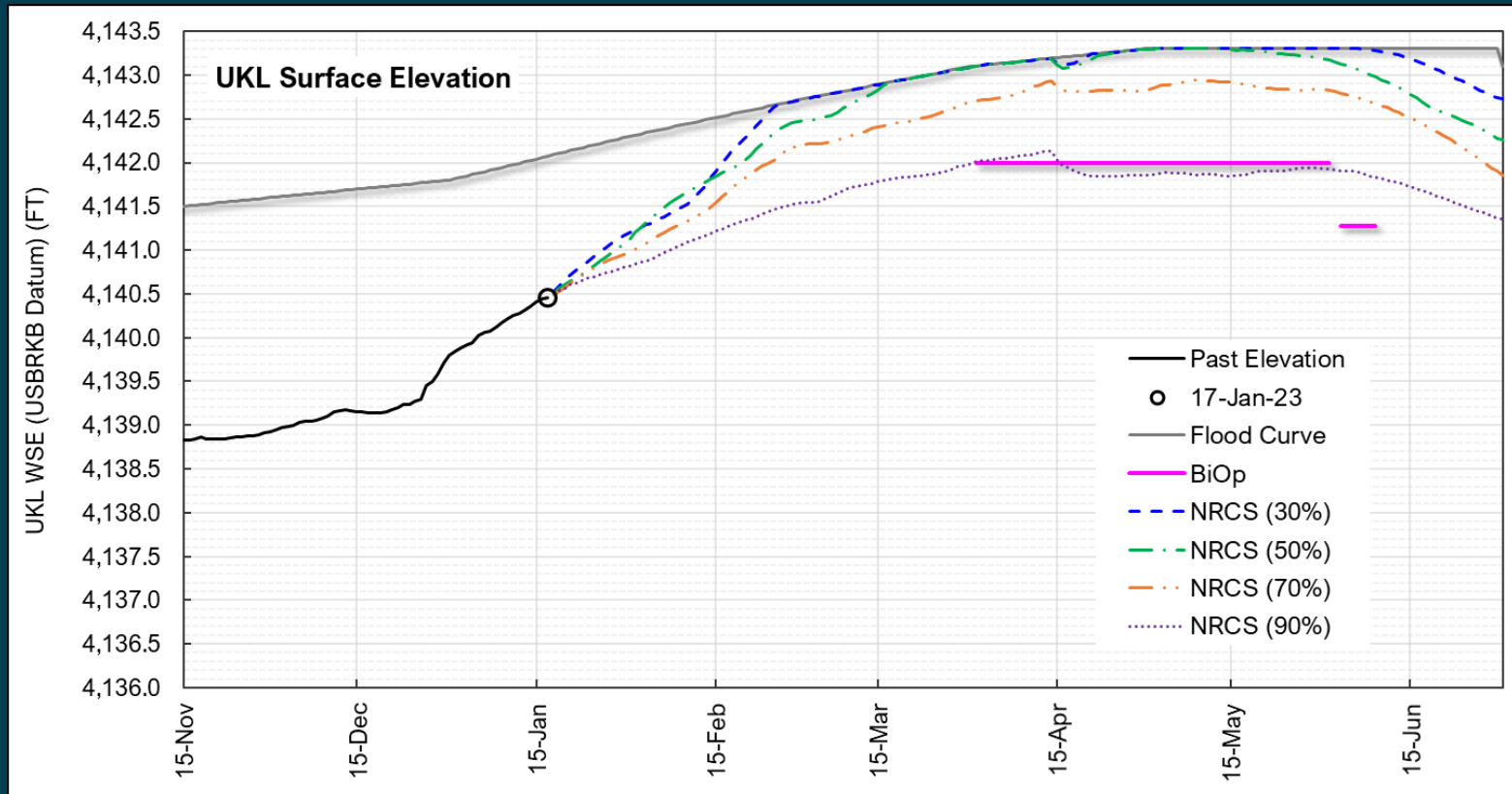


Projections, including WY2023 target elevations and surface elevation trajectories, are provisional and subject to revision based on future water supply forecasts, hydrologic conditions, and operational decisions

CNRFC UKL monthly probability net inflow forecast volumes at 25%, 50%, 75% and 90% probability of exceedance (POE) levels used in ensemble



# UKL Water Surface Elevation – NRCS Jan 1 Klamath River Basin (KRB) Water Supply Forecast (WSF)



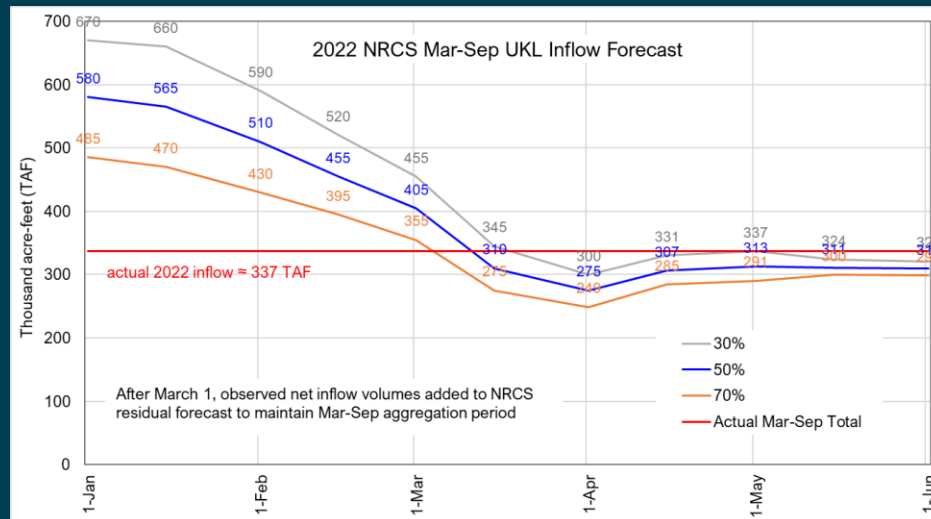
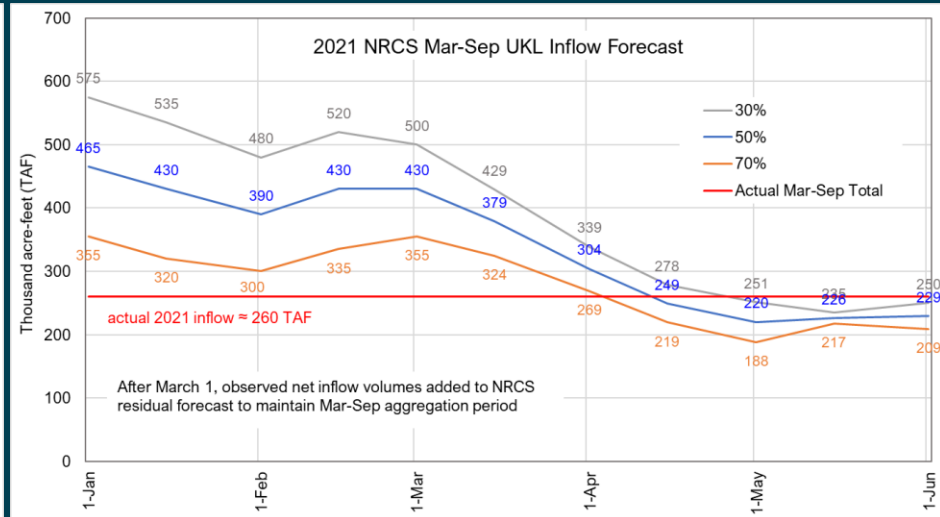
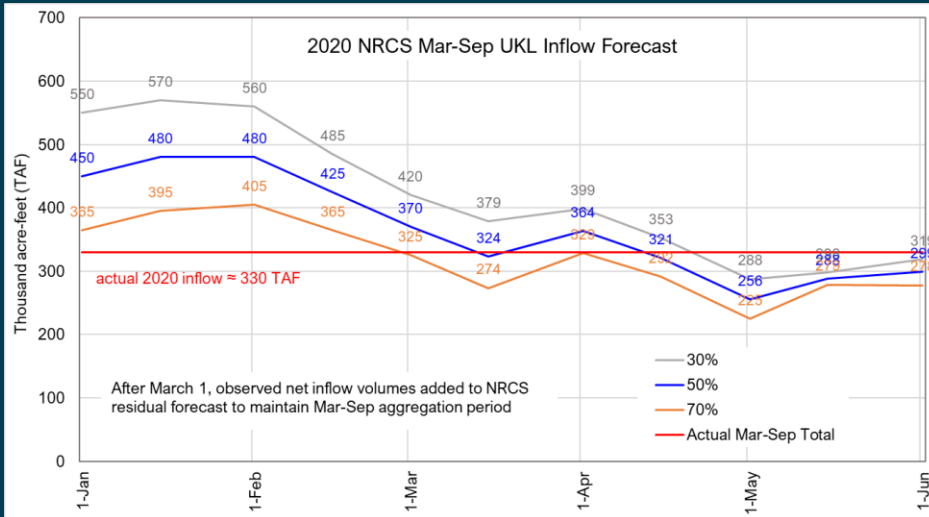
Projections, including WY2023 target elevations and surface elevation trajectories, are provisional and subject to revision based on future water supply forecasts, hydrologic conditions, and operational decisions

NRCS Jan 1 KRB WSF UKLNI forecast volumes at 30%, 50%, 70% and 90% probability of exceedance (POE) levels used in ensemble

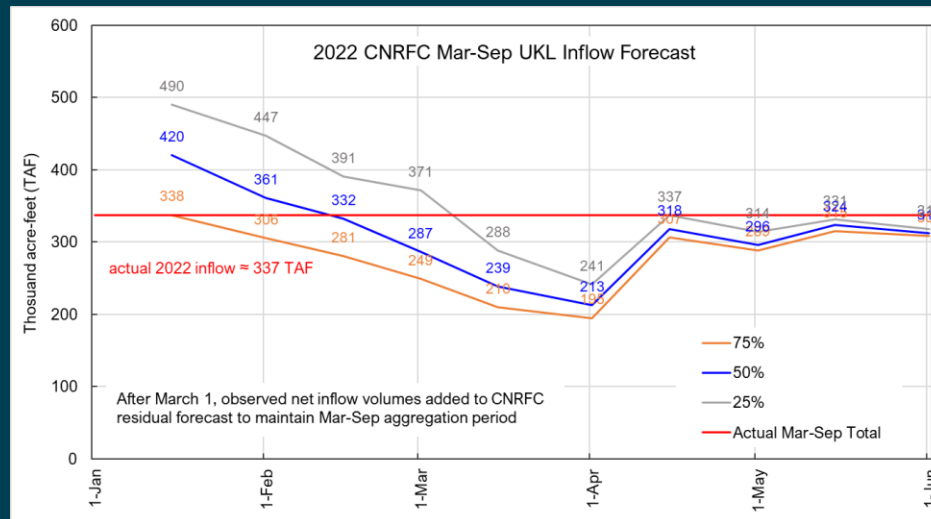
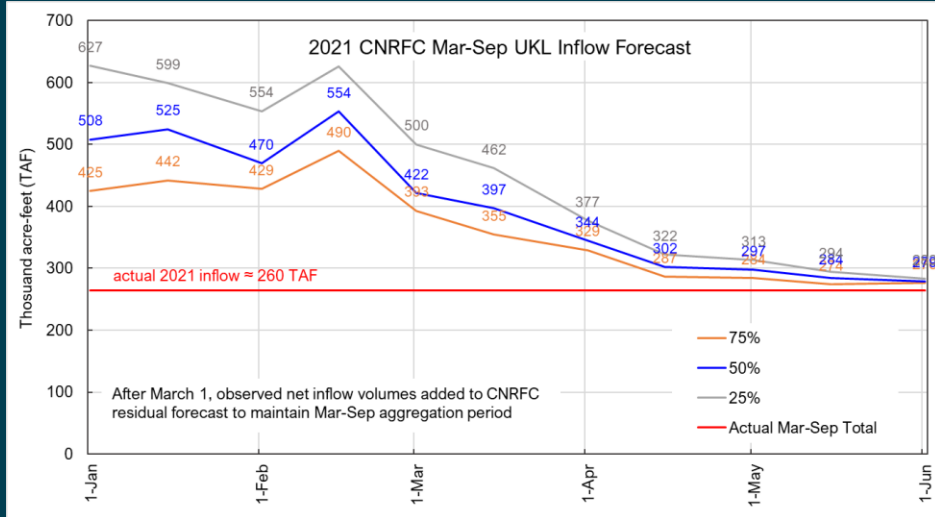
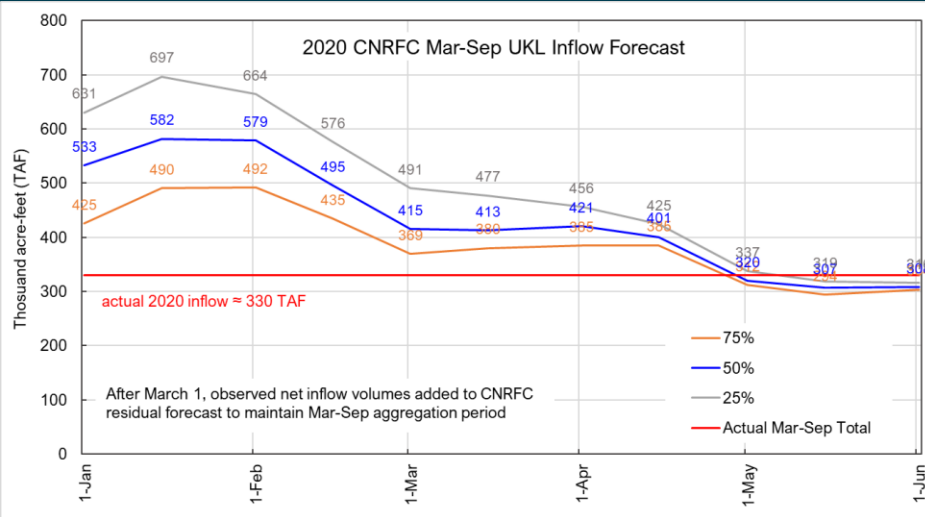
WY2023 observed UKL water surface elevation data are provisional



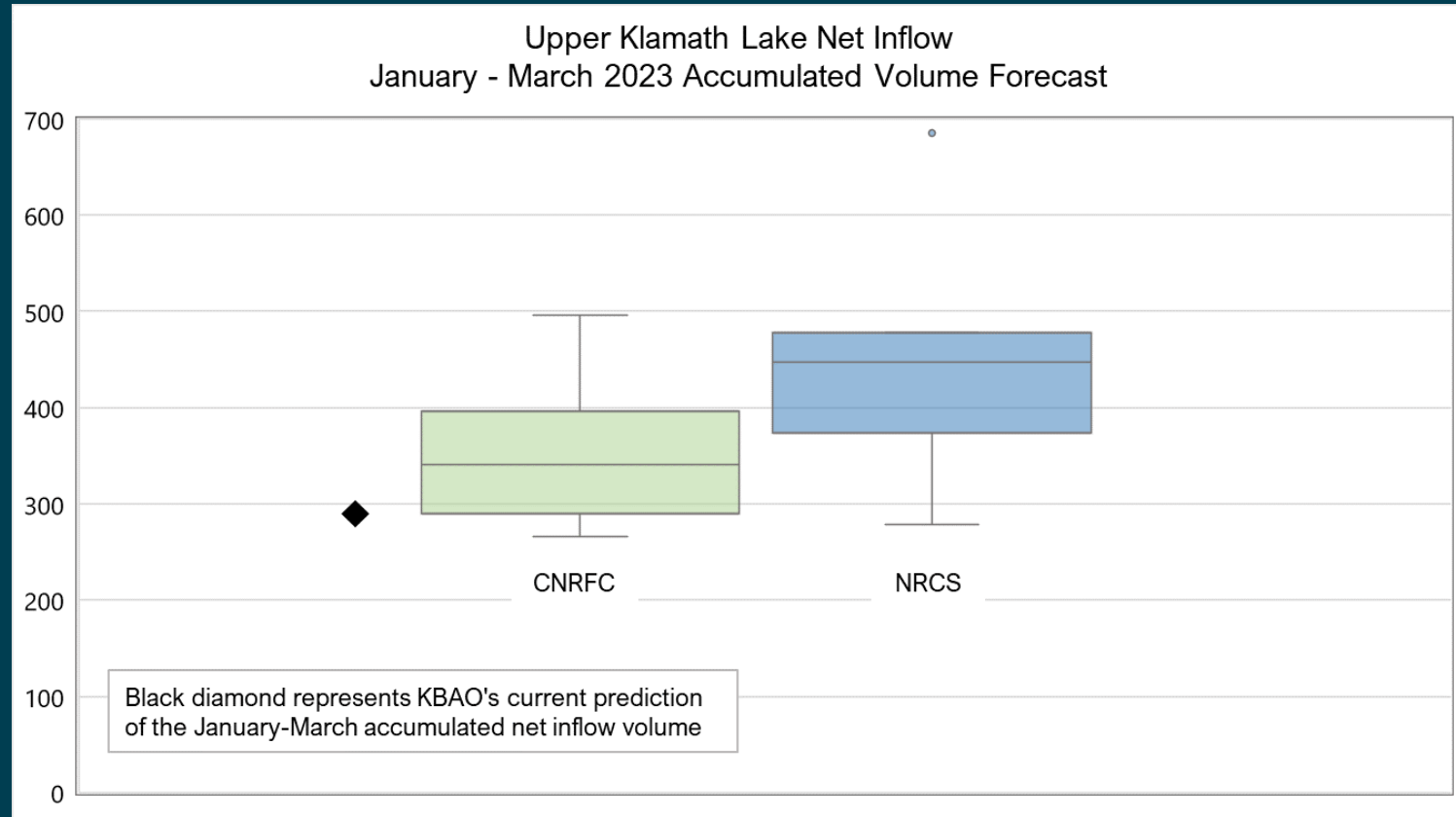
# NRCS Klamath River Basin Water Supply Forecast Last Three Water Years – March-September



# CNRFC Klamath River Basin Water Supply Forecast Last Three Water Years – March-September



# January 2023 Accumulated Net Inflow Forecast CNRFC & NRCS



# Assumptions, Model Input, Basis of Planning

- January 1 – March 31 UKL net inflow volume  $\approx$  290 TAF
- January 1 – March 31 UKL accretion volume  $\approx$  78 TAF
- January 1 – March 31 Lake Ewauna accretion volume  $\approx$  6 TAF
- LKNWR deliveries switched off from January 20 through February
- Project diversions switched off through March
- Analysis of analog year trends that includes but is not limited to the following WYs:
  - WYs 2021, 2020, 2018, 2010, 2009, 2005



# Temporary Operation Procedures





# Reclamation Assessment

- For the purpose of the TOP at this time, Reclamation intends to balance risk between the ESA requirements by planning for a net inflow to UKL of approximately 290 TAF between Jan 1 and Apr 1.
- Given Basis of Planning assumptions and model input:
  - UKL is projected to be below the TOP goal of 4142.4 ft by approximately 28 TAF on April 1
  - Based on our projected inflow, a reduction at Iron Gate Dam of 21% below BiOp minimum requirements would allow for both maintenance of UKL elevation requirements and for a full pulse flow to address disease in the Klamath River in the Spring.

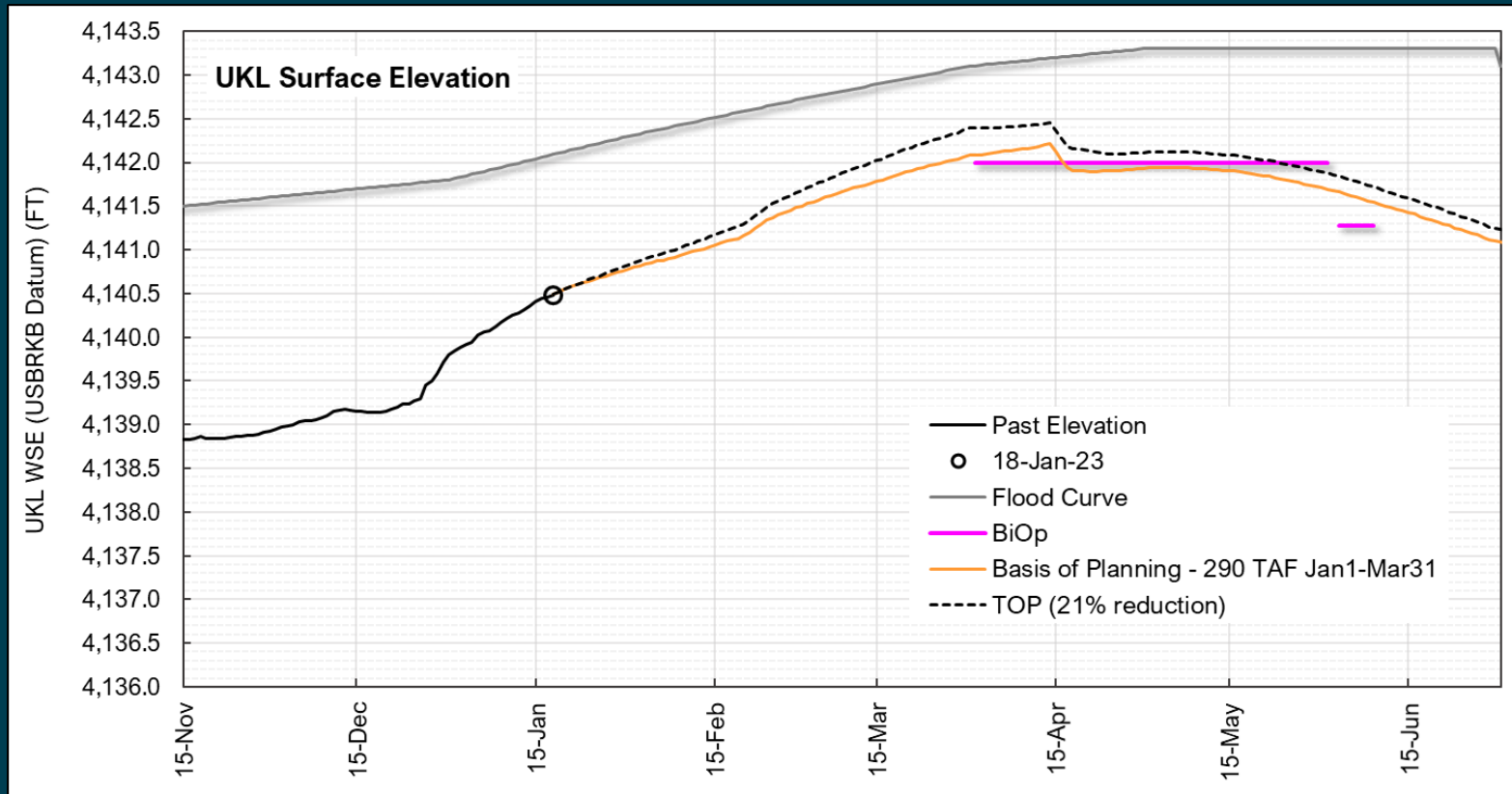


Reduction Start Date	20-Jan		10-Feb	
Percent IGD Reduction	Average Daily IGD Release (CFS)	Volumetric Gain to UKL by Apr 1 (TAF)	Average Daily IGD Release (CFS)	Volumetric Gain to UKL by Apr 1 (TAF)
10%	882	13.1	881	9.3
15%	829	20.4	829	14.5
20%	783	27.0	782	19.2
25%	736	33.5	735	23.8
30%	684	40.9	682	29.1

Data based on 75% POE scenario which includes CNRFC 75% POE forecast UKL inflow volumes



# UKL Water Surface Elevation – TOP

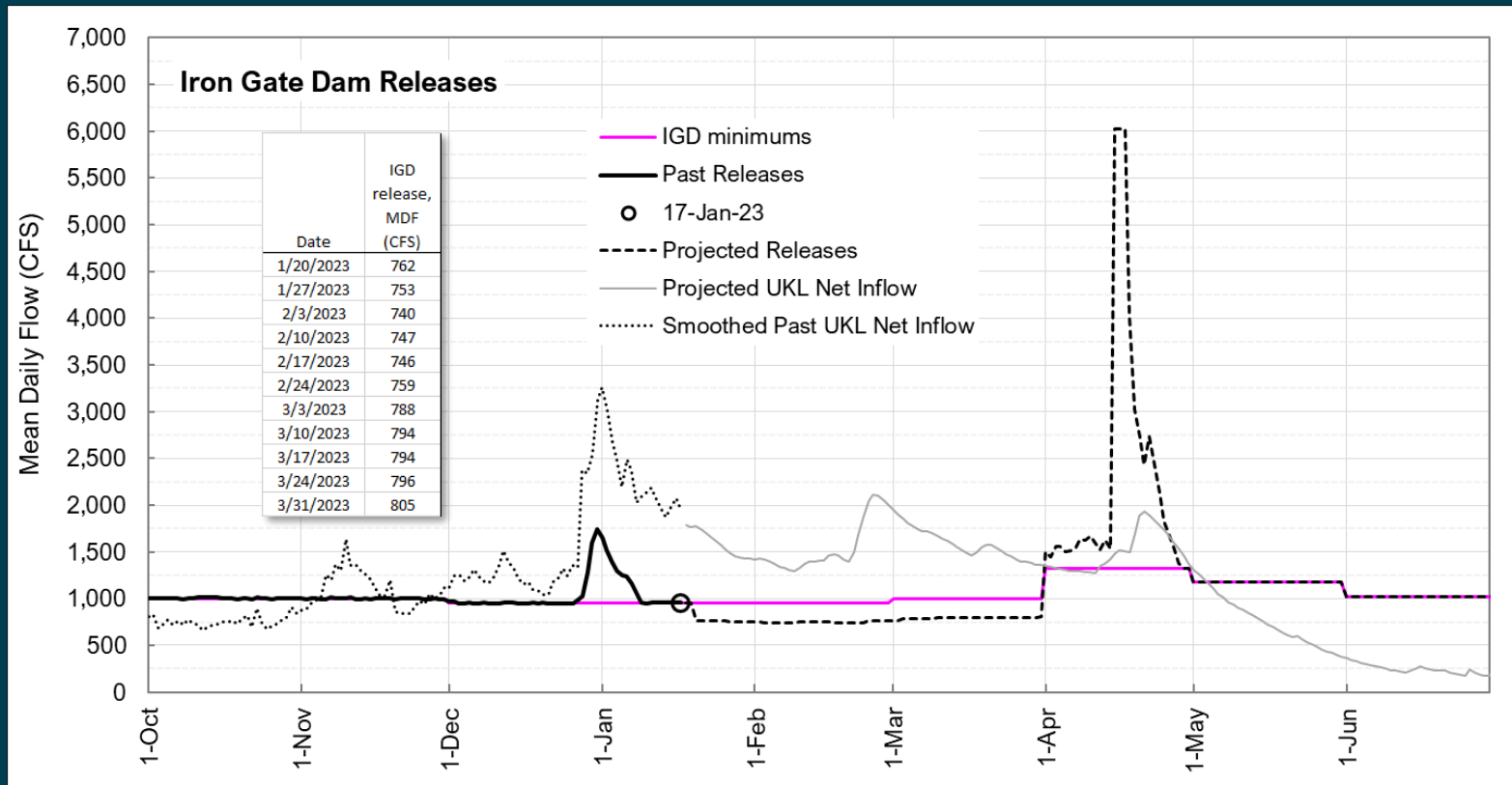


Projections, including WY2023 target elevations and surface elevation trajectories, are provisional and subject to revision based on future water supply forecasts, hydrologic conditions, and operational decisions

WY2023 observed UKL water surface elevation data are provisional



# Iron Gate Dam Releases – TOP



Projections, including IGD releases, are provisional and subject to revision based on future water supply forecasts, hydrologic conditions, and operational decisions

Current IGD releases reflect an average **21% reduction** to mean daily flows

WY2023 observed IGD release data are provisional



# Estimated River Habitat Spawning Reductions – 950 cfs

Q (cfs)	Q Red.	Habitat Red.	Pct. Hab. Tot.
950	-	-	85%
855	10%	6%	80%
760	20%	12%	75%
665	30%	21%	67%
570	40%	53%	40%

Based on Response to Reclamation Request for Technical Assistance from USFWS



# Estimated River Habitat Rearing Reductions – 950 cfs

Q (cfs)	Q Red.	Habitat Red.	Pct. Hab. Pot.
950	-	-	45%
855	10%	6%	42%
760	20%	13%	39%
665	30%	17%	37%
570	40%	43%	26%

Based on Response to Reclamation Request for Technical Assistance from USFWS



# Estimated River Habitat Rearing Reductions – 1000 cfs

Q	Q Red.	Habitat Red.	Pct. Hab. Pot.
1000	-	-	46%
900	10%	5%	43%
800	20%	11%	40%
700	30%	17%	38%
600	40%	20%	36%

Based on Response to Reclamation Request for Technical Assistance from USFWS





# Proposed Schedule

- Jan 13** – Finalization of Temporary Operation Procedures
- Jan 19** – Consideration of Iron Gate Dam flow releases below NMFS BiOp minimums
- Jan 23 or 24** – Tribal Gov't-to-Gov't with Interior
- Jan 25** – First possible day of flow changes
- Thru Apr 1** – weekly FASTA to discuss and adjust the TOP, until 4,142.4 in UKL can be assured and the TOP is concluded



# Technical Input

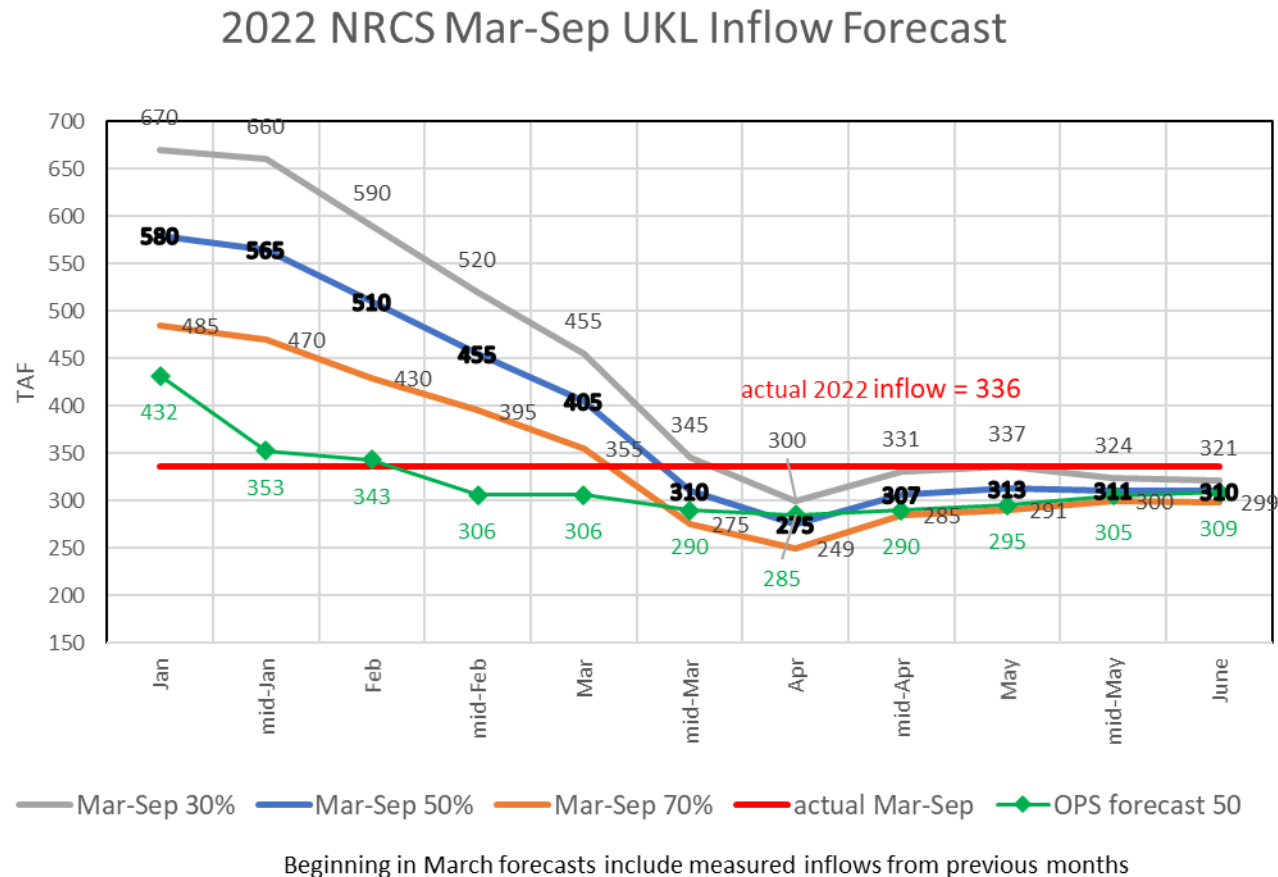
- **Please submit comments, to Courtney Mathews, [cmathews@usbr.gov](mailto:cmathews@usbr.gov)**
- **Updates and materials can be found at [www.usbr.gov/mp/kbao](http://www.usbr.gov/mp/kbao)**



# Supplemental Information



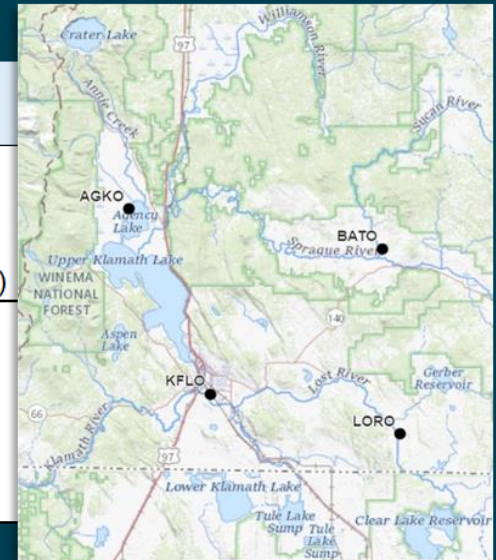
# 2022 NRCS vs. KBAO estimates of UKL inflow



# Klamath Basin AgriMet – USBR Water Year (WY) 2023

**Klamath Basin AgriMet Stations - Water Year-to-date Precipitation (through below date)**  
**Wednesday, January 18, 2023**

Station (POR)	WY2023 Total PREC (in.)	POR Median PREC (in.)	Percent POR Median	CBTT	PCODE	SDI	ELEV (ft.)
Lorella (2002-2021)	4.67	4.87	96%	LORO	PU	200586	4159
Beatty (2005-2021)	4.74	4.38	108%	BATO	PU	200522	4319
Agency (2001-2021)	8.31	7.17	116%	AGKO	PU	200542	4149
KFalls (1999-2021)	6.08	4.81	127%	KFLO	PU	200553	4099



# NRCS Upper Klamath Basin Snow/Precipitation Report WY2023

Upper Klamath Basin SNOTEL Snow/Precipitation Update Report							
Based on Mountain Data from NRCS SNOTEL Sites							
**Provisional data, subject to revision**							
Data based on the first reading of the day (typically 00:00) for Thursday, January 19, 2023							
Basin Site Name	Elev (ft)	Snow Water Equivalent			Water Year-to-Date Precipitation		
		Current (in)	Median (in)	Pct of Median	Current (in)	Median (in)	Pct of Median
KLAMATH							
Fish Lk.	4660	4.4	6.9	64	19.6	20.0	98
Chemult Alternate	4850	9.5	5.8	164	13.6	12.5	109
Gerber Reservoir	4890	1.8	1.3 <sub>(22)</sub>	138	8.0	6.4 <sub>(22)</sub>	125
Taylor Butte	5030	7.1	4.6	154	10.5	9.3	113
Crowder Flat	5170	4.2	2.7 <sub>(21)</sub>	156	8.2	6.7 <sub>(21)</sub>	122
Billie Creek Divide	5280	13.3	11.8	113	24.1	26.2	92
Diamond Lake	5280	5.1	8.5	60	20.7	22.7	91
Sun Pass	5400	15.6	11.2 <sub>(14)</sub>	139	19.6	19.6 <sub>(14)</sub>	100
Sevenmile Marsh	5700	18.9	16.1	117	30.0	30.7	98
Quartz Mountain	5720	4.3	1.2 <sub>(27)</sub>	358	10.0	7.0 <sub>(17)</sub>	143
Silver Creek	5740	8.6	5.8	148	11.9	12.2	98
Strawberry	5770	7.0	3.8	184	11.1	8.8	126
Cold Springs Camp	5940	14.2	15.0	95	17.9	28.0	64
Fourmile Lake	5970	14.3	16.0	89	24.4	26.5	92
Annie Springs	6010	26.5	19.6 <sub>(20)</sub>	135	31.5	31.8 <sub>(20)</sub>	99
Crazyman Flat	6180	13.6	9.6 <sub>(19)</sub>	142	14.2	14.4 <sub>(19)</sub>	99
Swan Lake Mtn	6830	19.9	12.6 <sub>(14)</sub>	158	21.8	15.6 <sub>(14)</sub>	140
Summer Rim	7080	7.8	9.3	84	9.7	11.0	88
Basin Index (%)		121			99		

-M = Missing data.

\* = Analysis may not provide a valid measure of conditions.

N/A = Not available.

Footnotes for median and average:

(##) = If less than 30 years are available, this value specifies the number of years used for the median and average calculations. Sites with less than 10 years available do not have medians or averages.

The MONTH-TO-DATE PRECIPITATION Percent of Median (or Average) represents the total precipitation (beginning on the 1st day of the current month) found at selected SNOTEL sites in or near the basin compared to the Median (or Average) value for those sites on this day.

The WATER YEAR-TO-DATE-PRECIPITATION represents total precipitation since October 1st, expressed in inches.

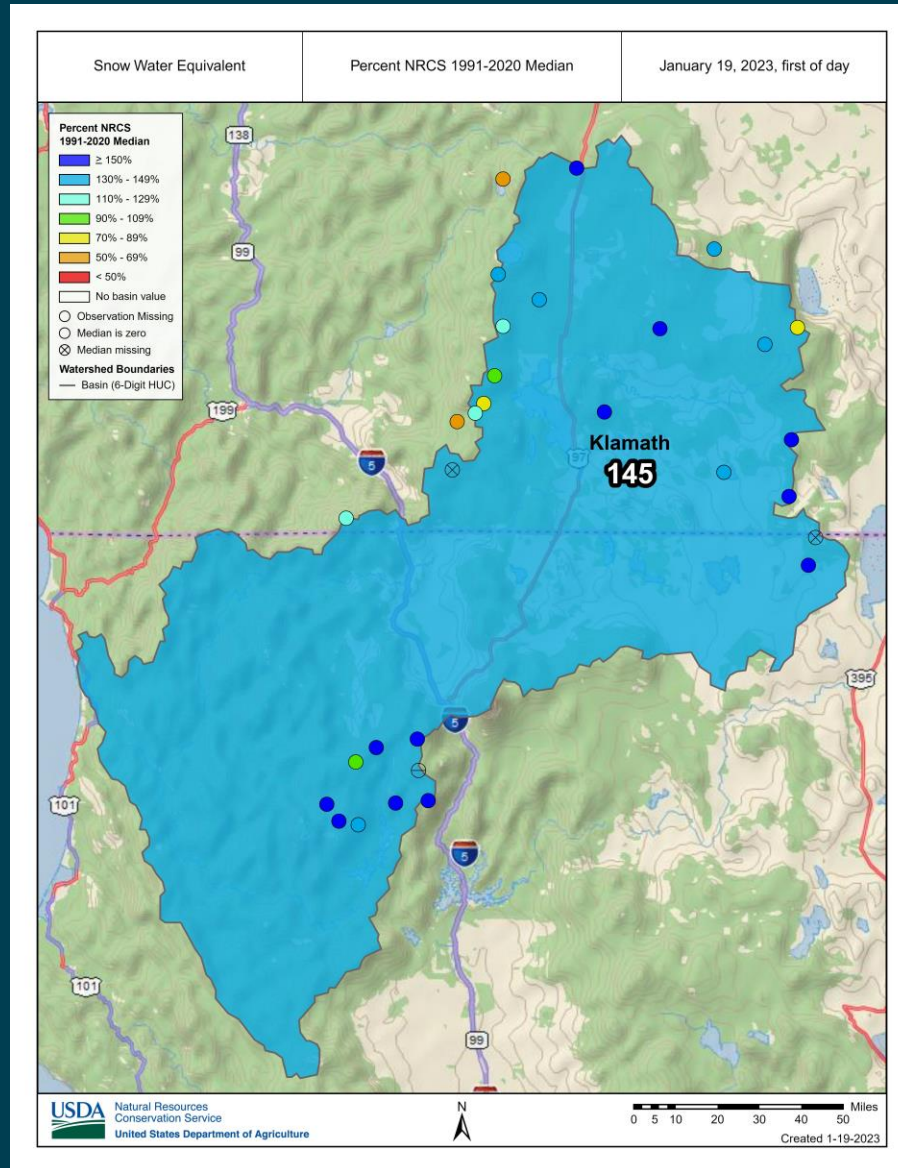
Contact your state water supply staff for assistance.

Medians and averages are calculated for the period 1991-2020.

Provisional data, subject to revision.

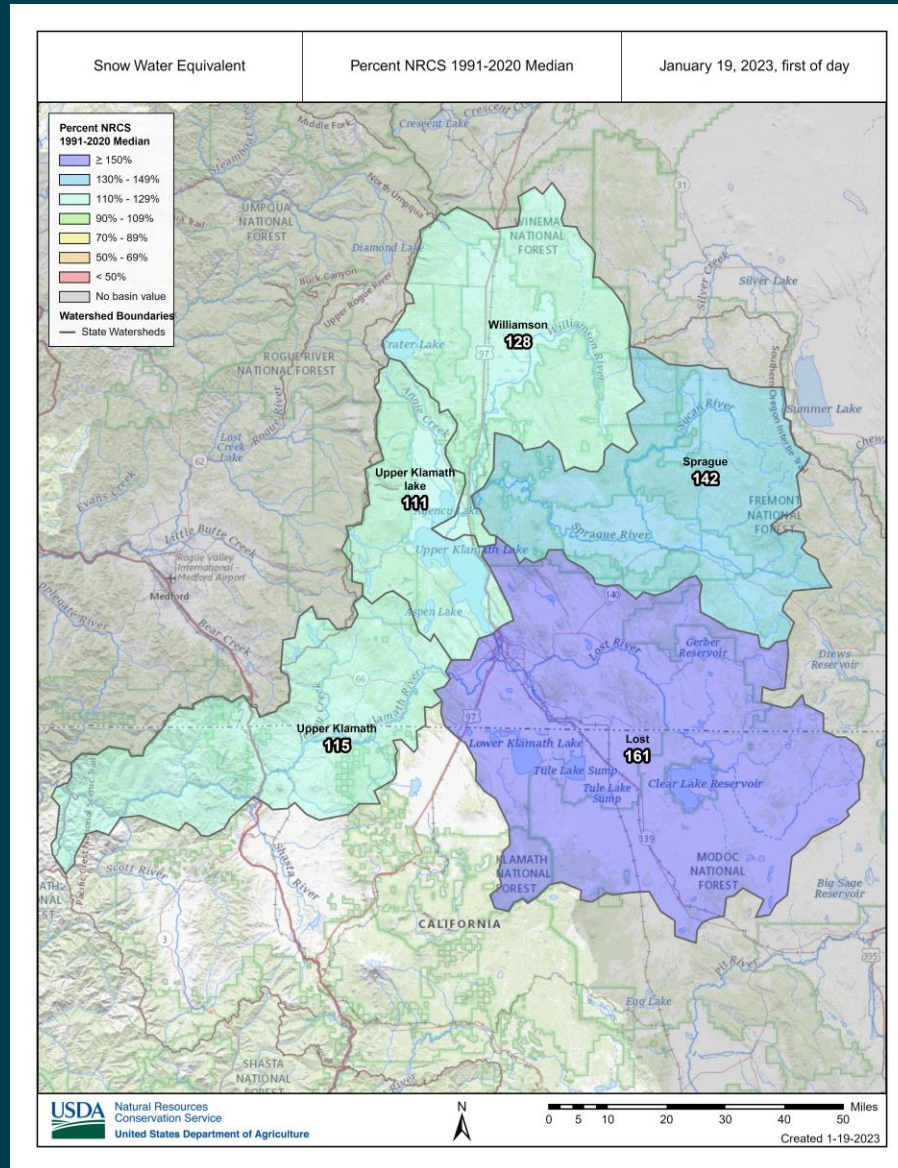


# NRCS Klamath River Basin (KRB) HUC-6 Snow Water Equivalent (SWE) WY2023

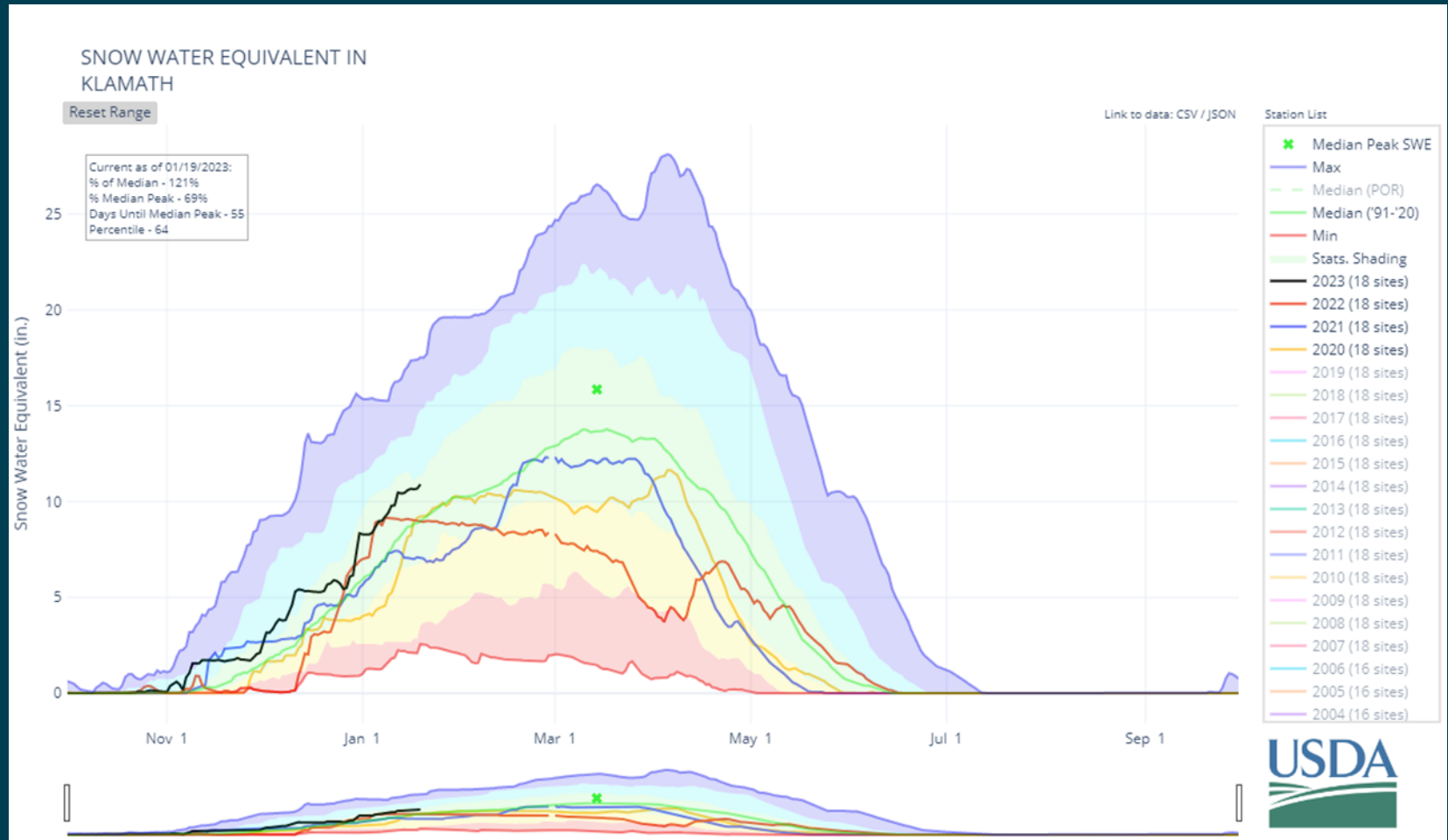




# NRCS Upper Klamath Basin (UKB) HUC-8 Snow Water Equivalent (SWE) WY2023



# NRCS Upper Klamath Basin Snow Water Equivalent (SWE) WY2023- NRCSWY2023 & Last 3 Water Years



# Klamath Falls Weather Forecast - NWS

## 19 January 2022



# Klamath Falls Weather Forecast - NWS

## 19 January 2022

### Detailed Forecast

<b>Today</b>	Mostly sunny, with a high near 36. North northwest wind 3 to 6 mph.
<b>Tonight</b>	Mostly clear, with a low around 10. North northeast wind 3 to 5 mph.
<b>Friday</b>	Sunny, with a high near 37. Calm wind.
<b>Friday Night</b>	Patchy freezing fog after 10pm. Mostly clear, with a low around 16. Calm wind.
<b>Saturday</b>	Areas of freezing fog before 10am. Mostly sunny, with a high near 42. Light and variable wind.
<b>Saturday Night</b>	Partly cloudy, with a low around 22.
<b>Sunday</b>	Mostly sunny, with a high near 42.
<b>Sunday Night</b>	Mostly clear, with a low around 20.
<b>Monday</b>	Sunny, with a high near 42.
<b>Monday Night</b>	Mostly clear, with a low around 21.
<b>Tuesday</b>	Mostly sunny, with a high near 43.
<b>Tuesday Night</b>	Mostly clear, with a low around 20.
<b>Wednesday</b>	Sunny, with a high near 45.



# Orleans Weather Forecast - NWS

## 19 January 2022



# Orleans Weather Forecast - NWS

## 19 January 2022

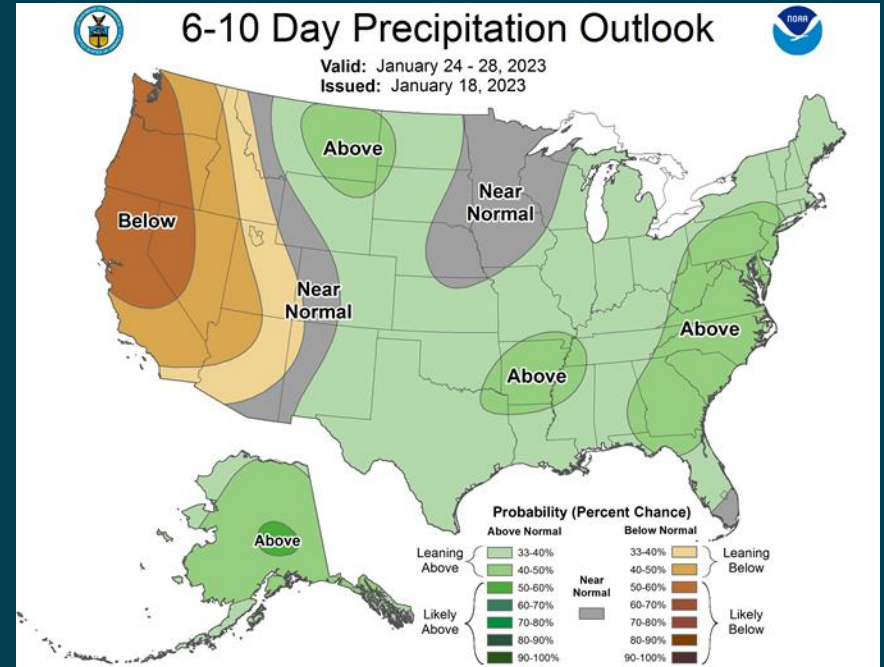
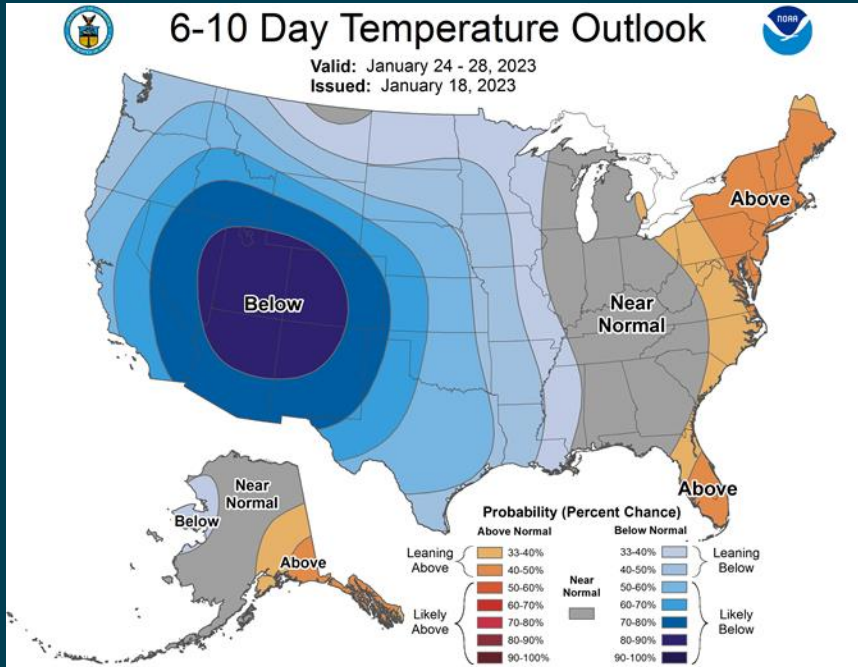
### Detailed Forecast

<b>Today</b>	Areas of frost before 10am. Otherwise, sunny, with a high near 46. Light northeast wind.
<b>Tonight</b>	Patchy fog after 4am. Otherwise, mostly clear, with a low around 26. North wind 3 to 5 mph.
<b>Friday</b>	Patchy fog before 10am. Otherwise, partly sunny, then gradually becoming sunny, with a high near 51. Light north northeast wind increasing to 5 to 9 mph in the morning.
<b>Friday Night</b>	Mostly clear, with a low around 32. Calm wind.
<b>Saturday</b>	Mostly sunny, with a high near 56. Calm wind.
<b>Saturday Night</b>	Partly cloudy, with a low around 35. Light east northeast wind.
<b>Sunday</b>	Mostly sunny, with a high near 55.
<b>Sunday Night</b>	Mostly clear, with a low around 34.
<b>Monday</b>	Sunny, with a high near 58.
<b>Monday Night</b>	Mostly clear, with a low around 38.
<b>Tuesday</b>	Sunny, with a high near 59.
<b>Tuesday Night</b>	Mostly clear, with a low around 37.
<b>Wednesday</b>	Sunny, with a high near 60.

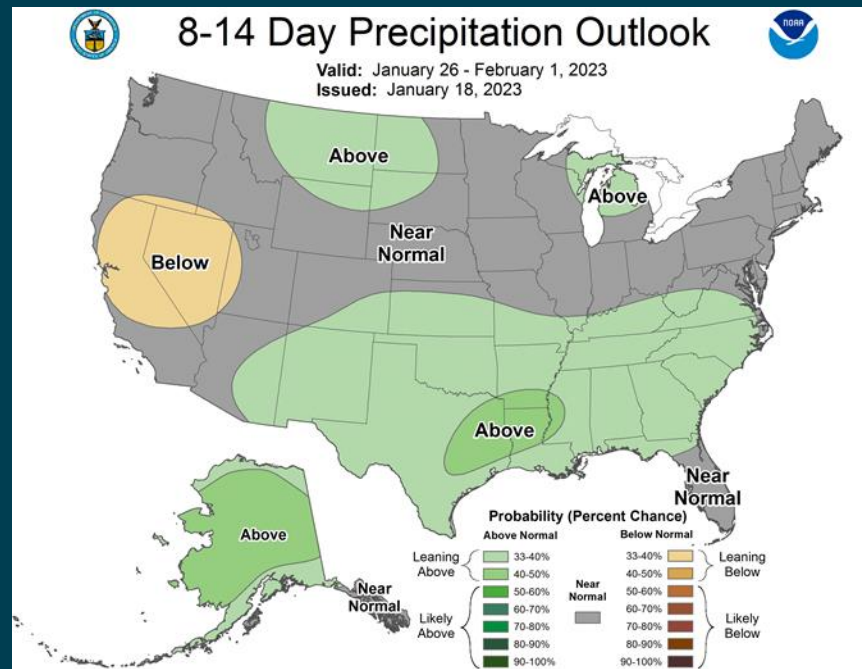
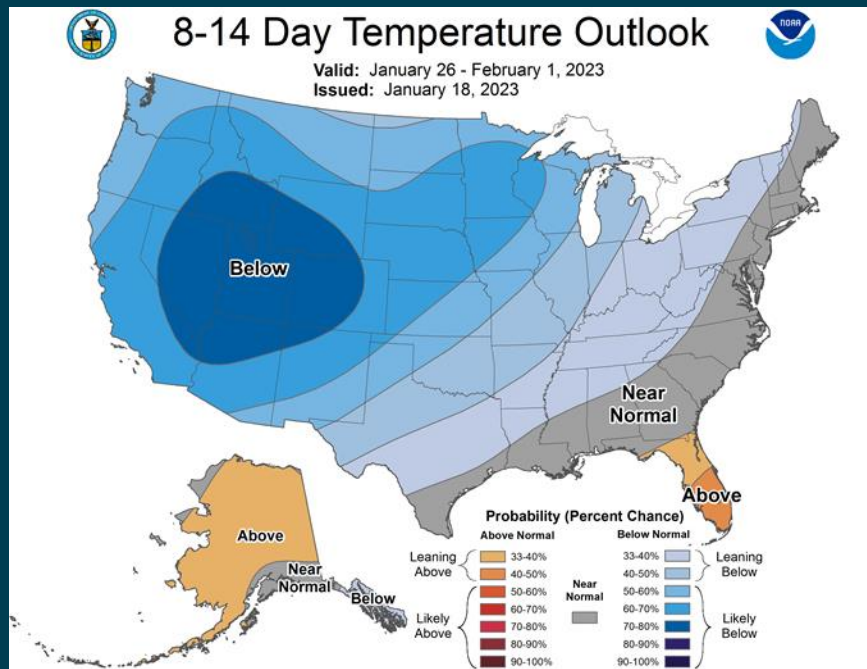




# 6-10 Day Weather Outlook

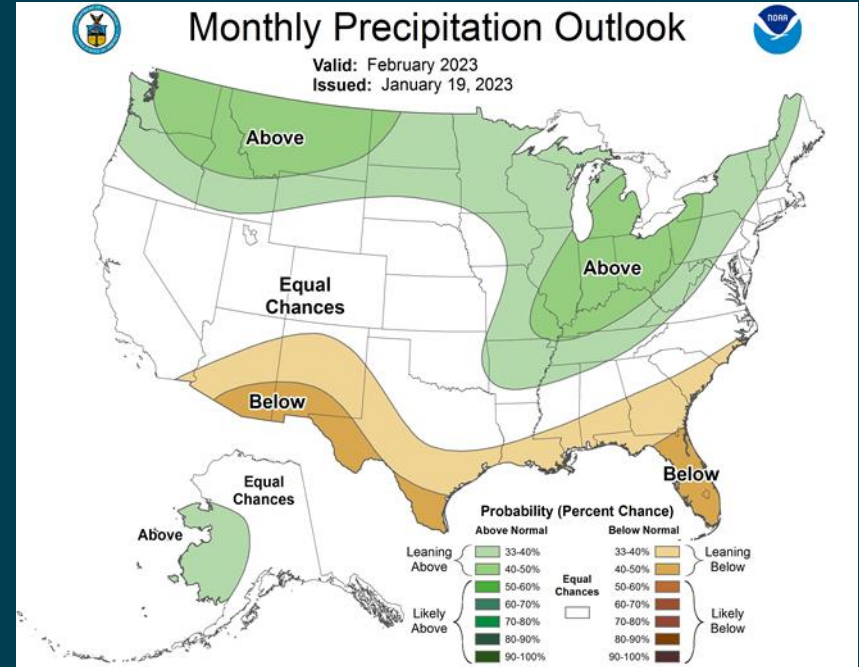
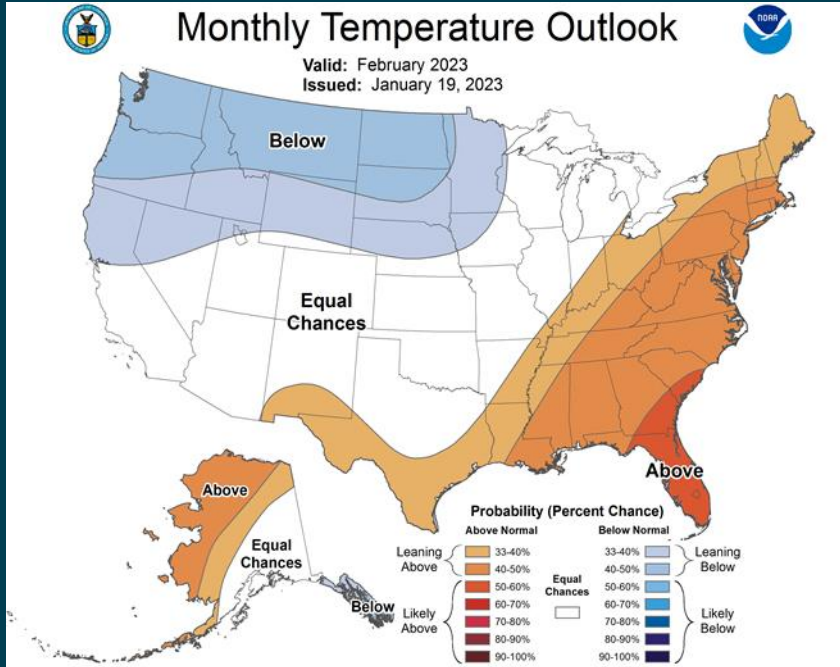


# 8-14 Day Weather Outlook





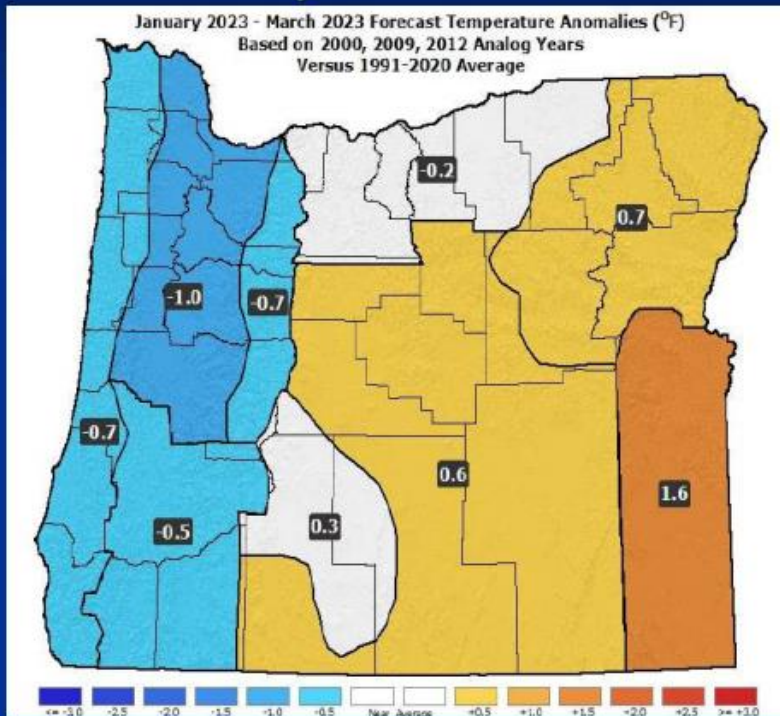
# February Weather Outlook



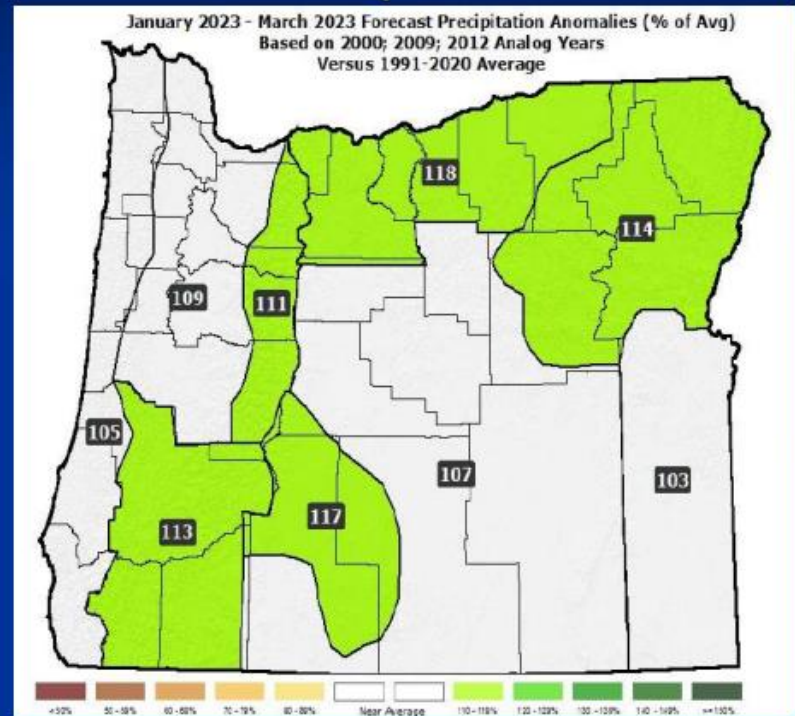
# Seasonal Climate Forecast - ODA

## Jan. 2023 – Mar. 2023

### Temperatures



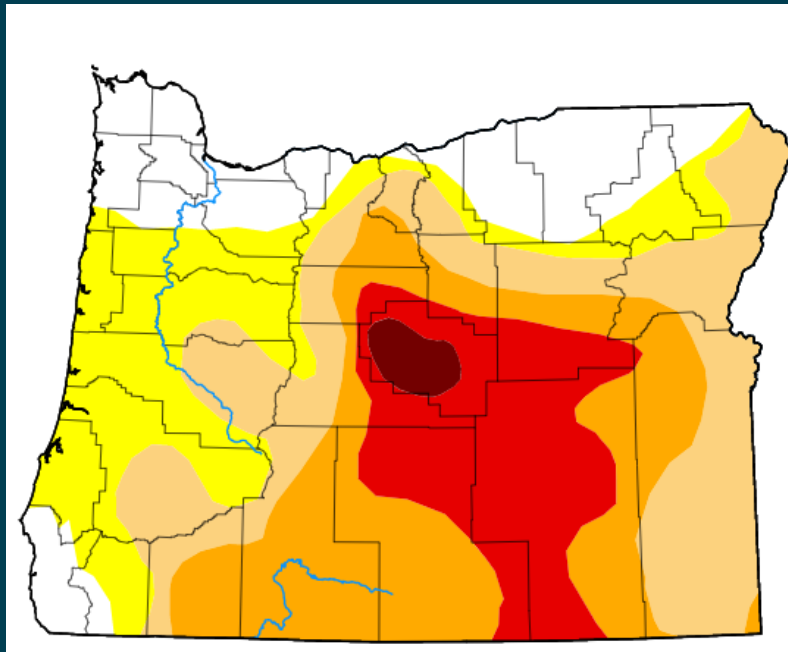
### Precipitation



- Large monthly temperature variation is likely. Heightened chances for a cold outbreak in January. Near or above-average precipitation
- Primary analogs (above) didn't have cold snaps. However, January 1957 had a severe cold stretch, so watch out for that possibility



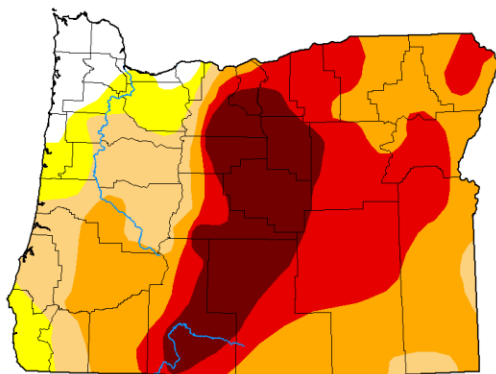
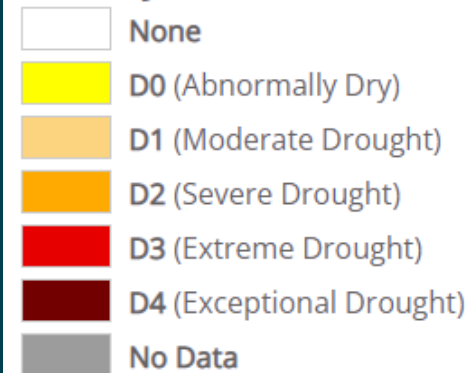
# United States Drought Monitor - Oregon



**Map released: Thurs. January 19, 2023**

**Data valid: January 17, 2023 at 7 a.m. EST**

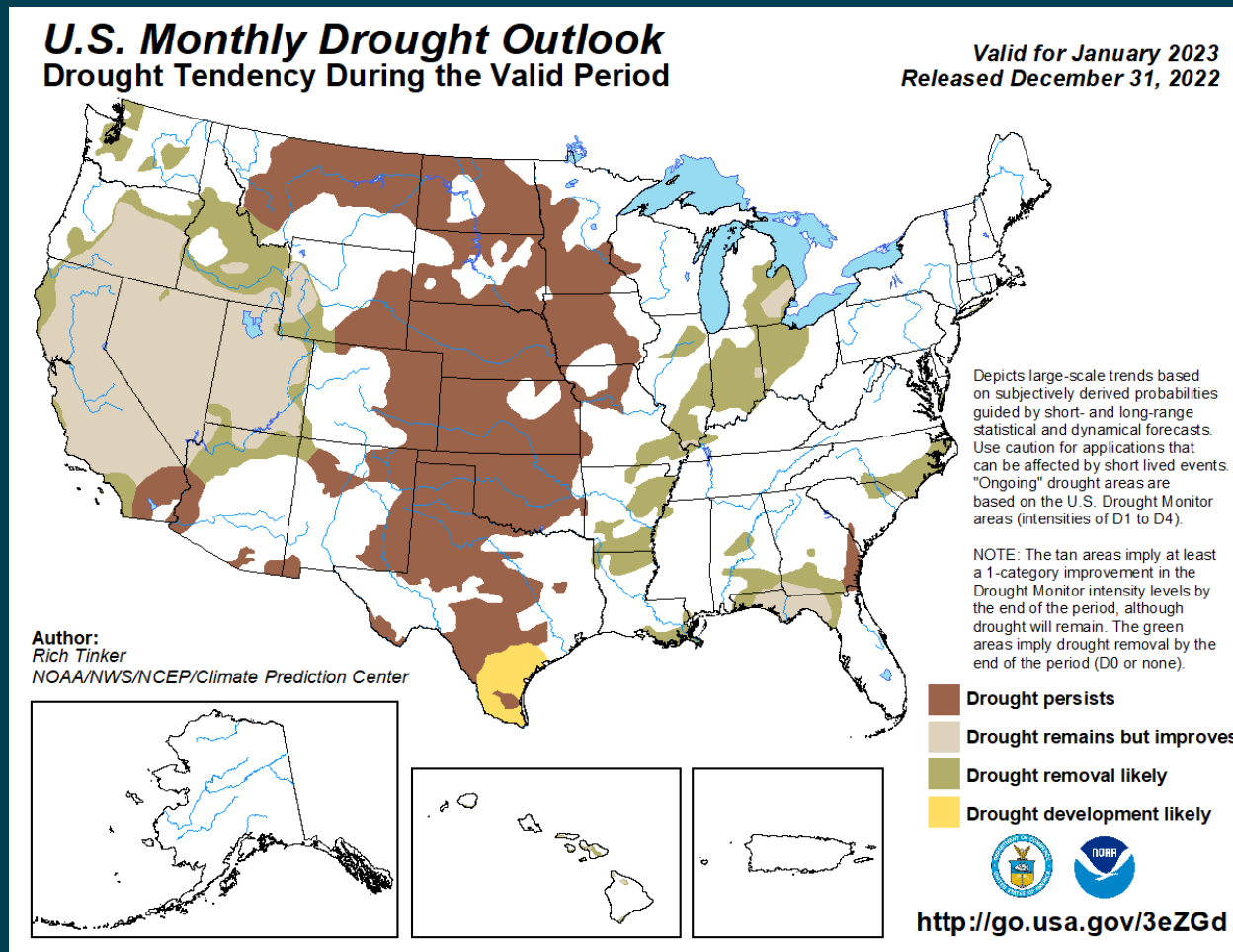
## Intensity



January 18, 2021



# U.S. Monthly Drought Outlook - January 2023



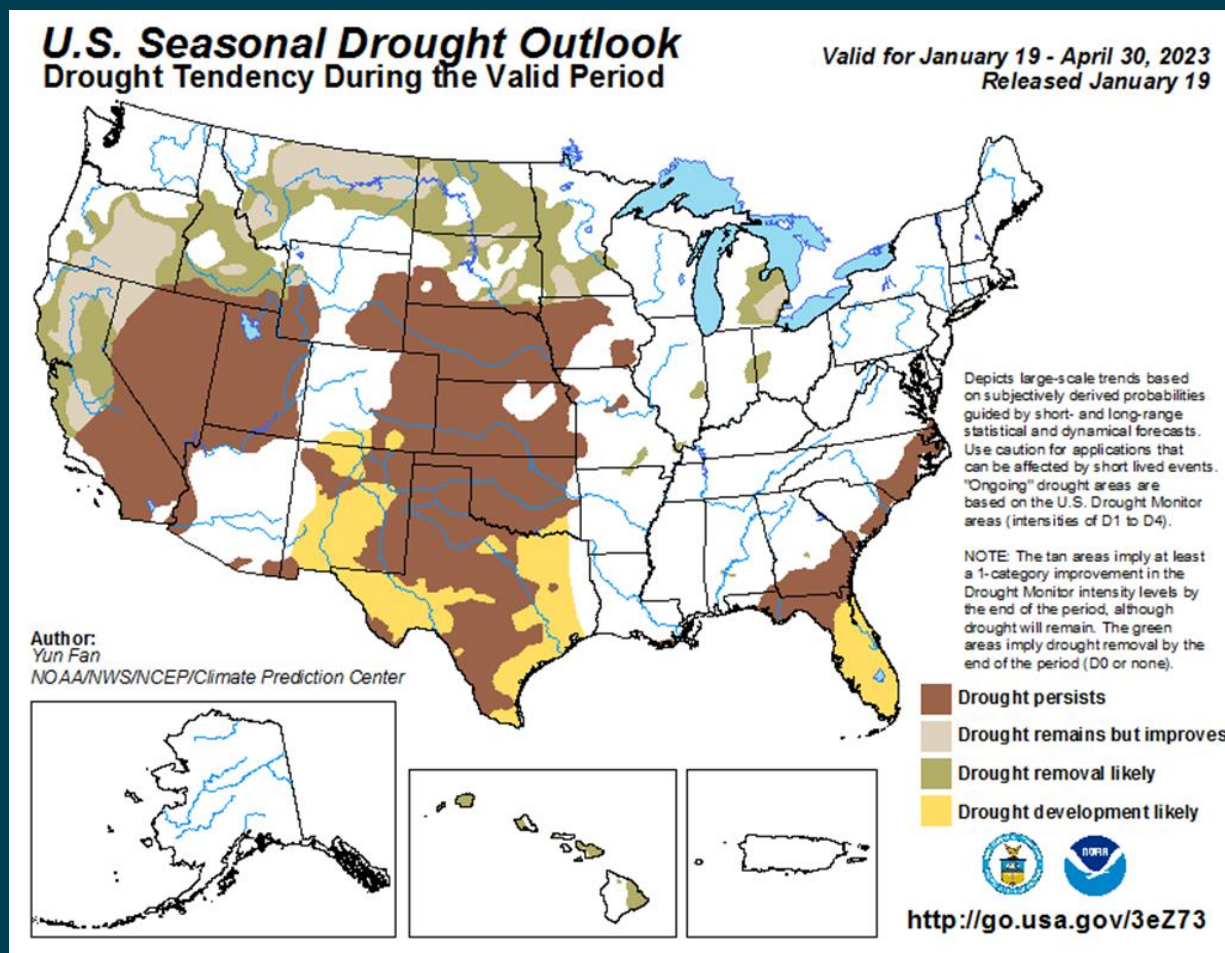
Next Seasonal Outlook issuance date: January 31, 2022, at 3:00pm EDT





# U.S. Seasonal Drought Outlook

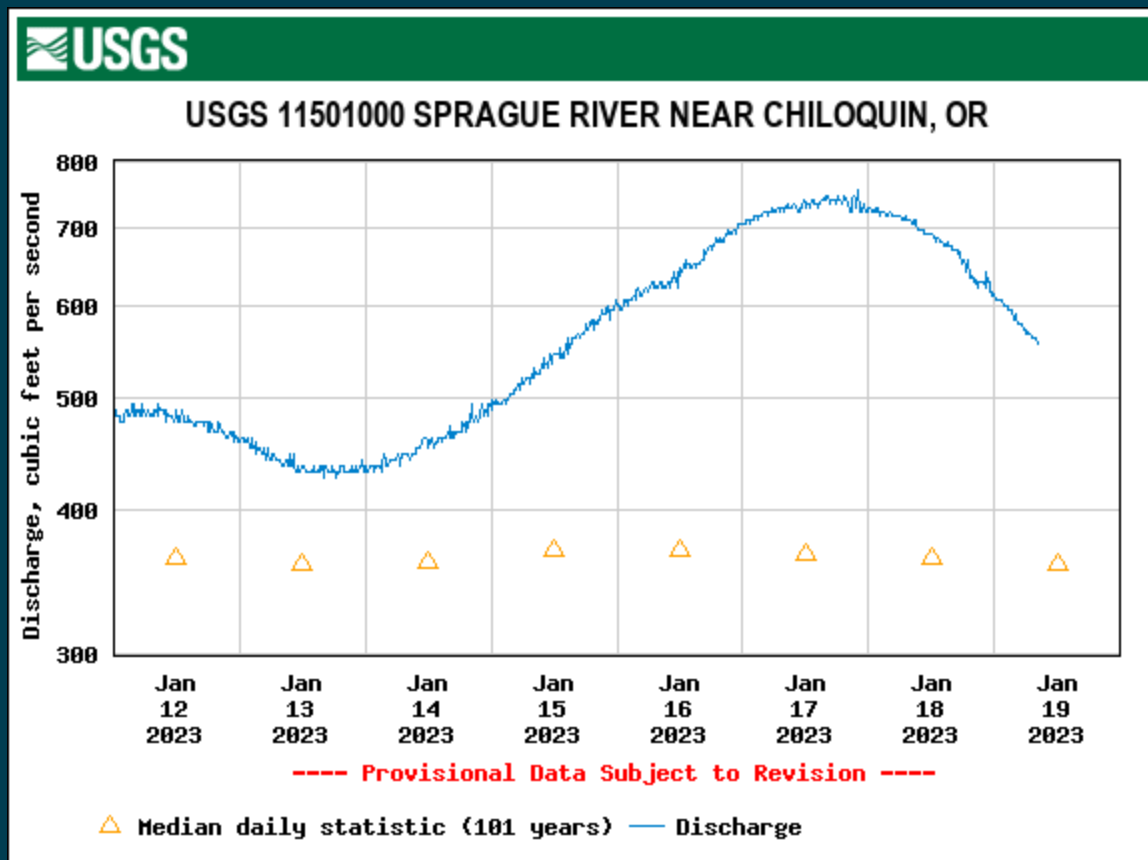
## January 19 – April 30, 2023



Next Seasonal Outlook issuance date: **February 16, 2023, at 8:30am EDT**



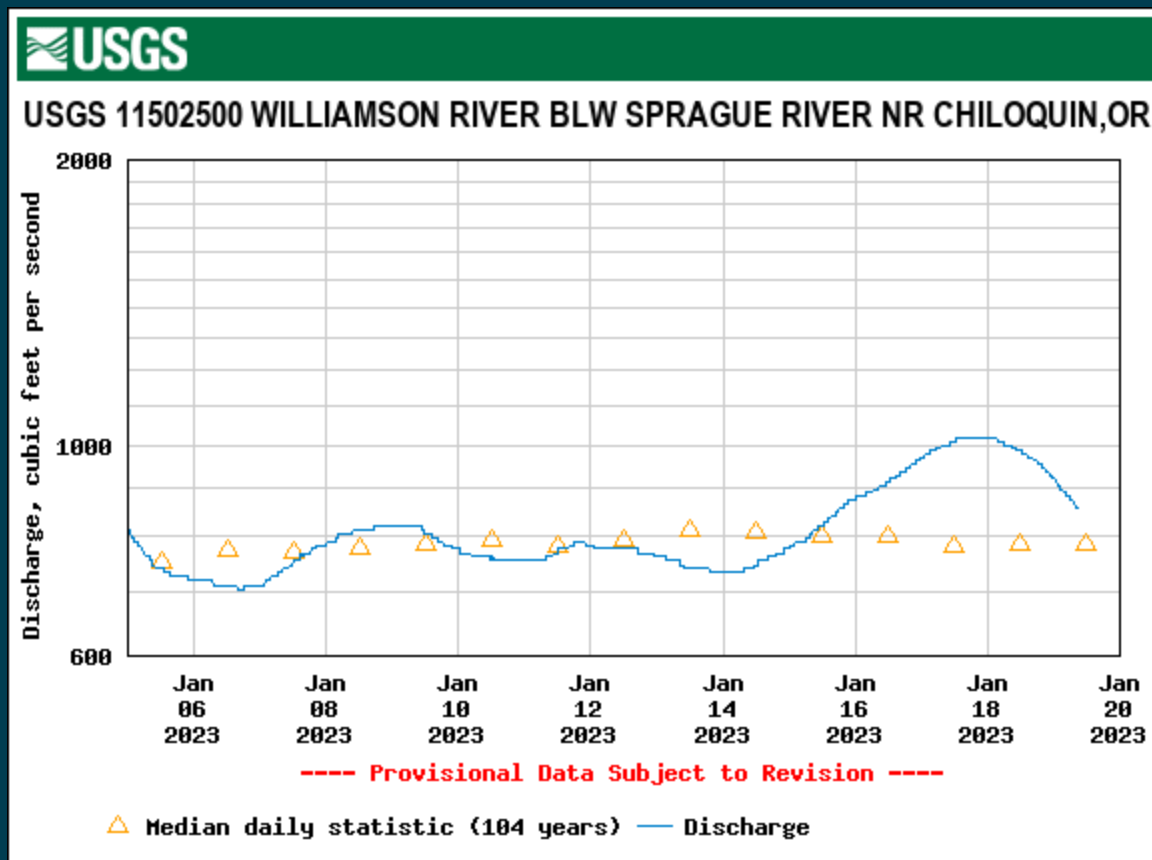
# Sprague River - USGS 11501000



Min (1935)	25th percen- tile	Median	75th percen- tile	Most Recent Instantaneous Value Jan 19	Mean	Max (1974)
170	298	360	502	557	600	4840



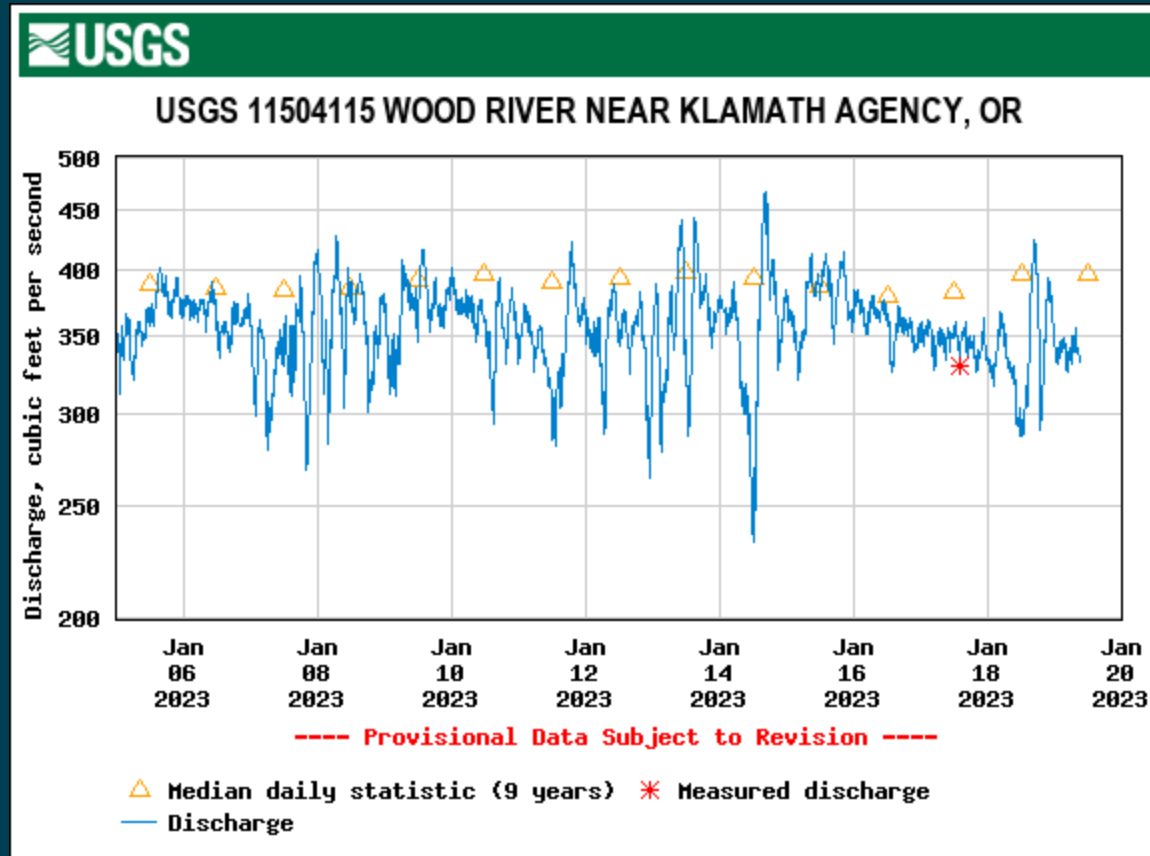
# Williamson River - USGS 11502500



Min (1935)	25th percent- tile	Median	Most Recent Instantaneous Value Jan 19	75th percent- tile	Mean	Max (1974)
486	636	787	860	1030	1050	5650



# Wood River – USGS 11504115

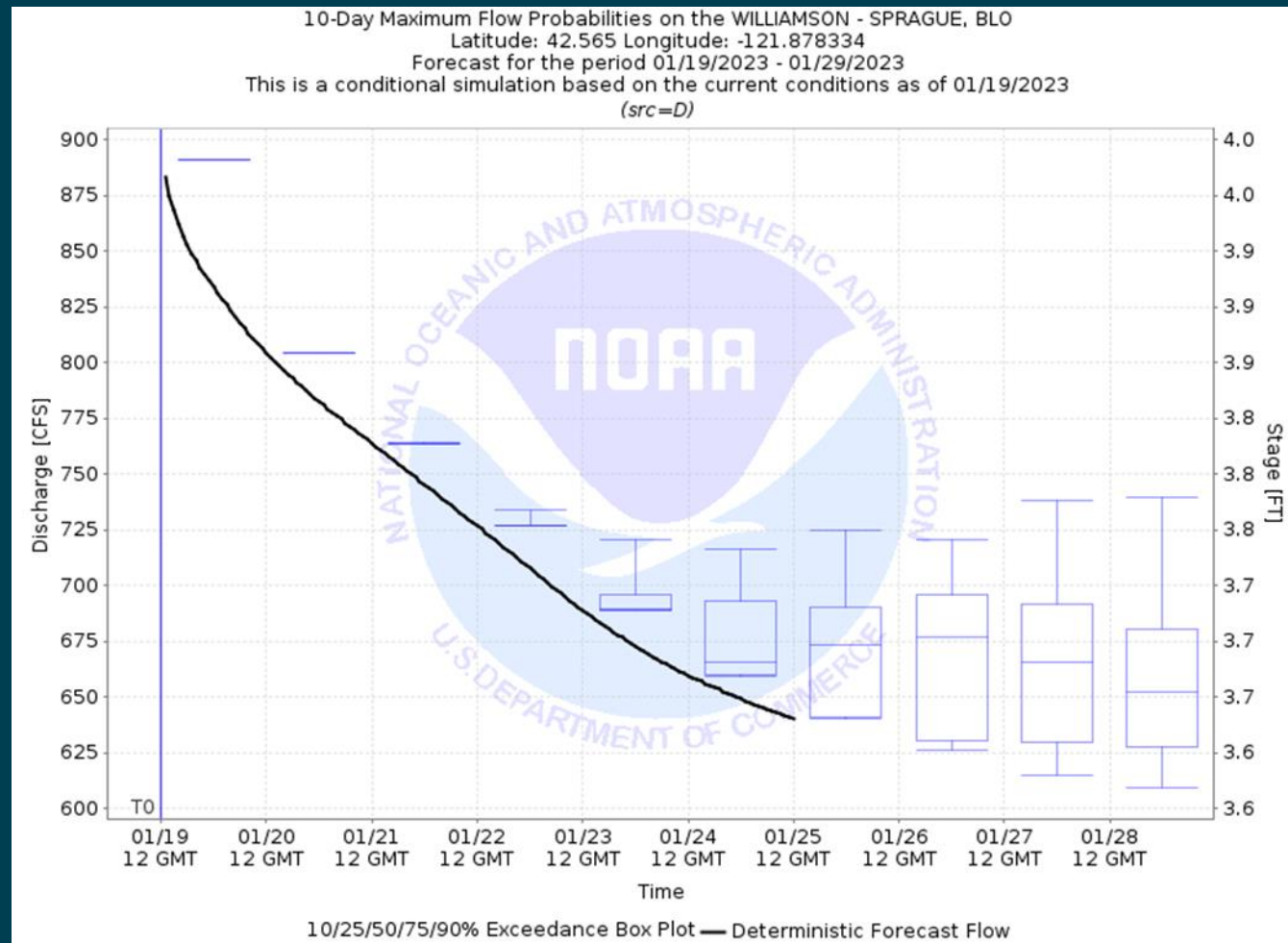


Most Recent Instantaneous Value Jan 19	Min (2022)	25th percen- tile	Median	Mean	75th percen- tile	Max (2018)
333	333	376	397	408	451	495

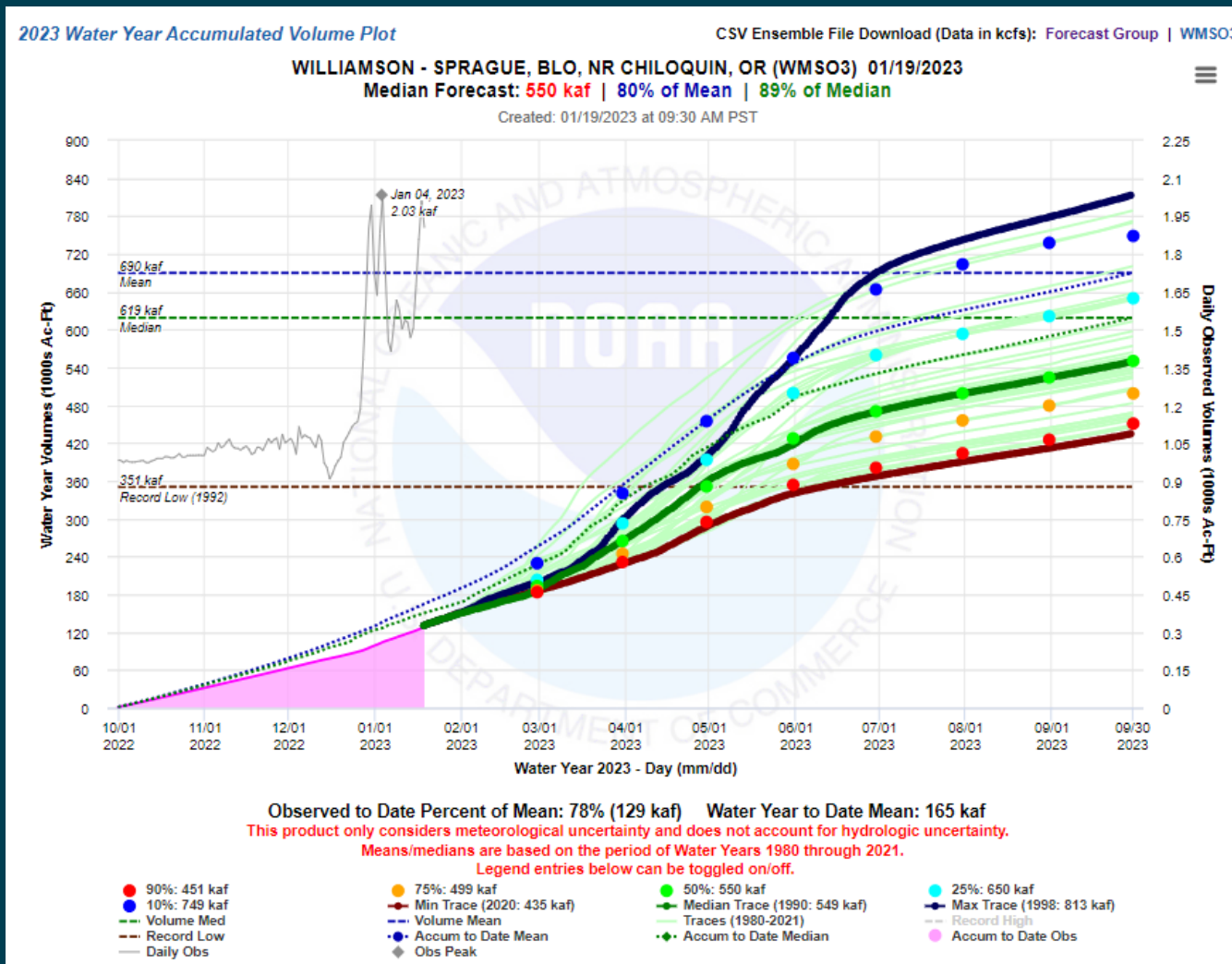




# Williamson River Forecast



# Williamson River Forecast – CNRFC WY2023



# UKL Cumulative Net Inflow WY2023 & Period-of-Record (POR)-to-Date

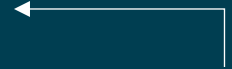
WY	Cumulative UKL Net Inflow (TAF)
2014	251.08
2021	256.26
1992	265.50
1991	271.09
2022	277.30
2019	280.89
<b>2023</b>	<b>286.25</b>
2020	287.74
1995	290.37
1994	291.28
2012	295.63
1993	300.11
2010	308.06
2005	308.62
2016	309.88
2018	310.48
2004	313.16
2003	318.14
1990	339.01
1981	340.74
2008	341.37



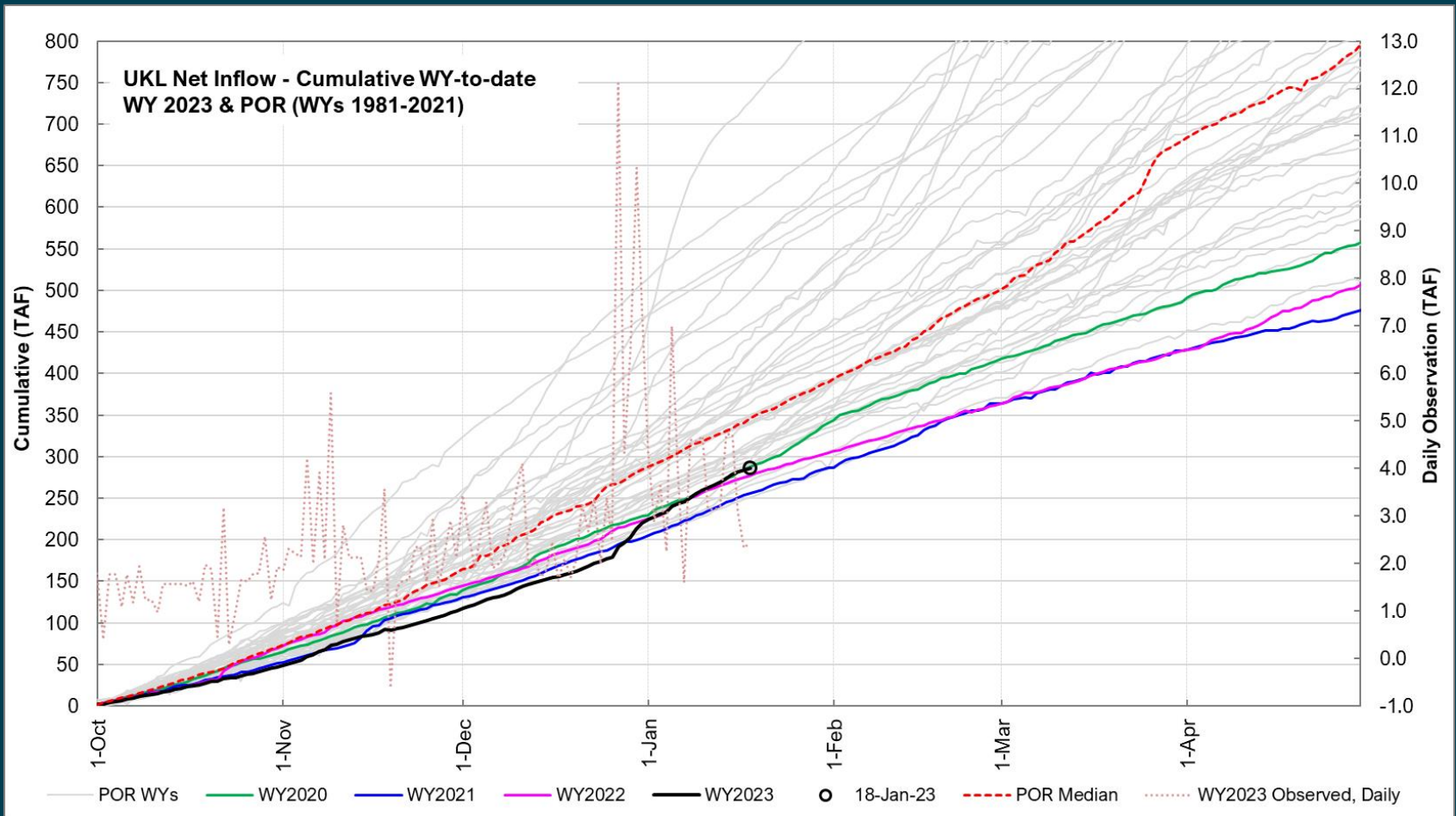
% of POR median = 84%  
% of POR average = 77%

WY	Cumulative UKL Net Inflow (TAF)
2001	341.90
2015	346.22
2013	347.50
1989	348.55
2009	350.28
2017	364.52
2007	376.98
1988	377.14
2011	382.76
2002	386.82
1998	388.43
1987	397.41
1986	425.78
2000	427.52
1996	441.55
1983	459.67
1999	499.05
1985	541.69
2006	547.84
1982	554.53
1984	607.33
1997	727.93

POR median



# UKL Cumulative Net Inflow WY2023 and POR-to-date



WY2022/2023 data are provisional and subject to revision



# Observed UKL Net Inflow January 12 – January 18

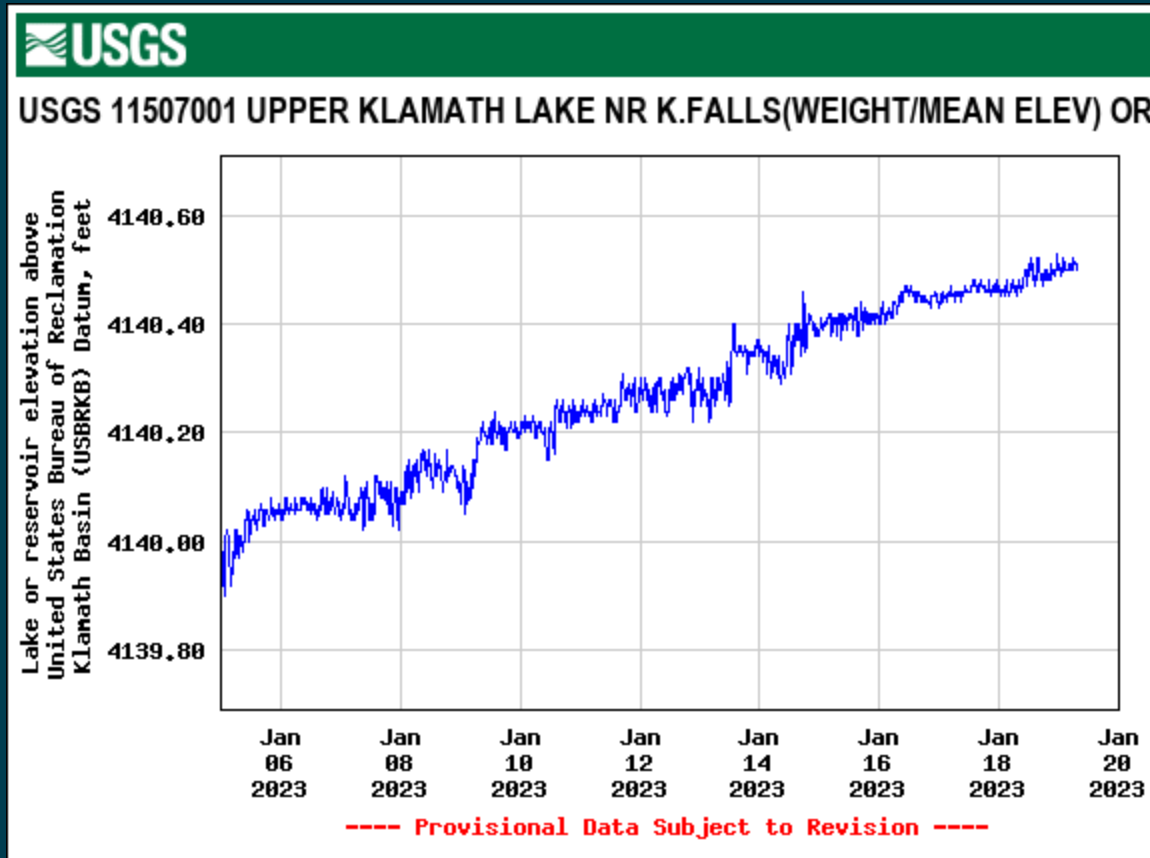
Date	Observed UKL Net Inflow (CFS)	Observed Percentile**
1/12/2023	1572	26%
1/13/2023	1608	34%
1/14/2023	2380	79%
1/15/2023	2380	76%
1/16/2023	1570	19%
1/17/2023	1171	1%
1/18/2023	1228	4%
Average	<b>1701*</b>	

\*Above date range: 34<sup>th</sup> POR percentile (64% exceedance) daily average = 1710 CFS

\*\*POR: WYs 1981-2021



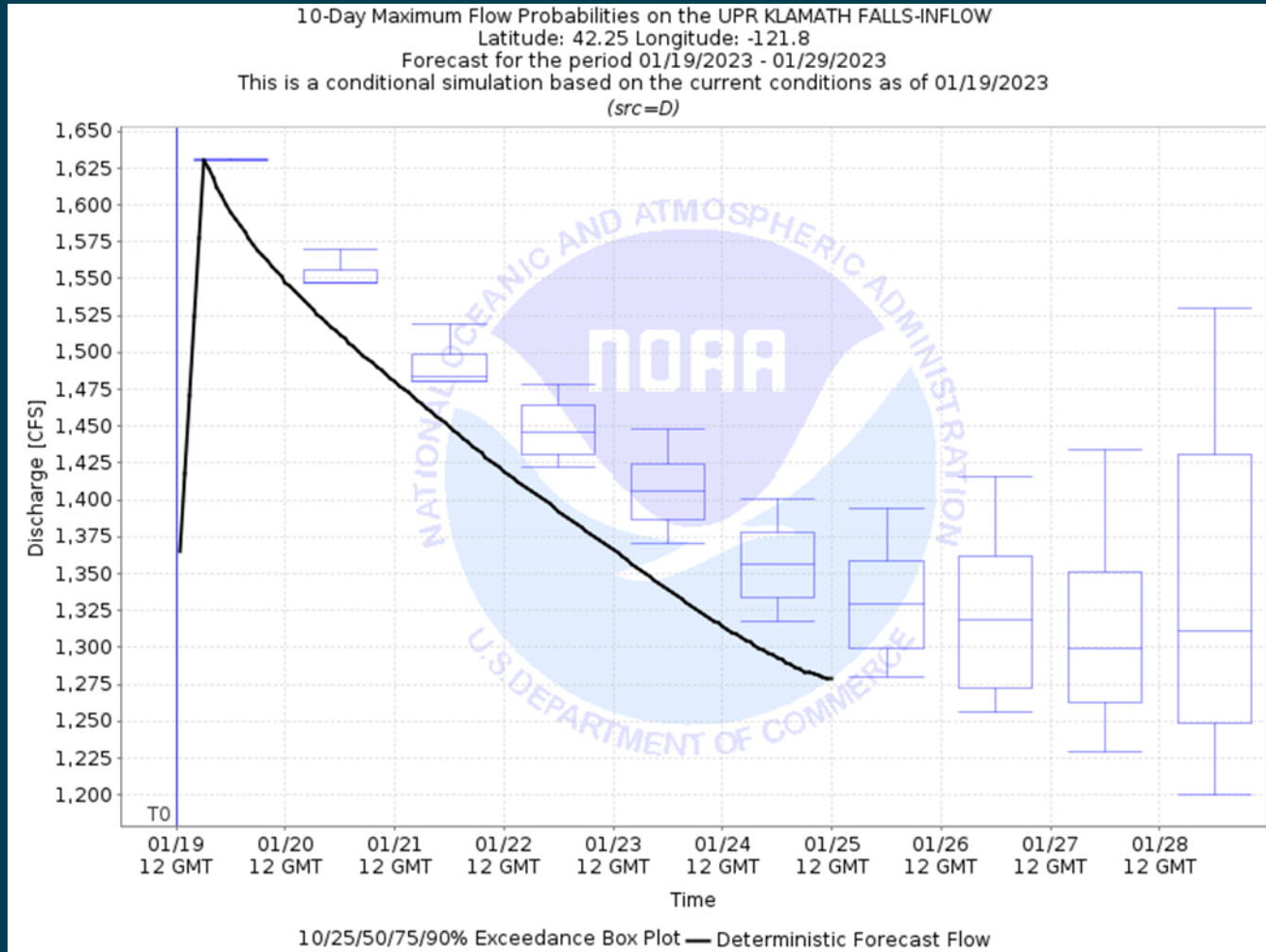
# UKL Water Surface Elevation January 05 – Present Day



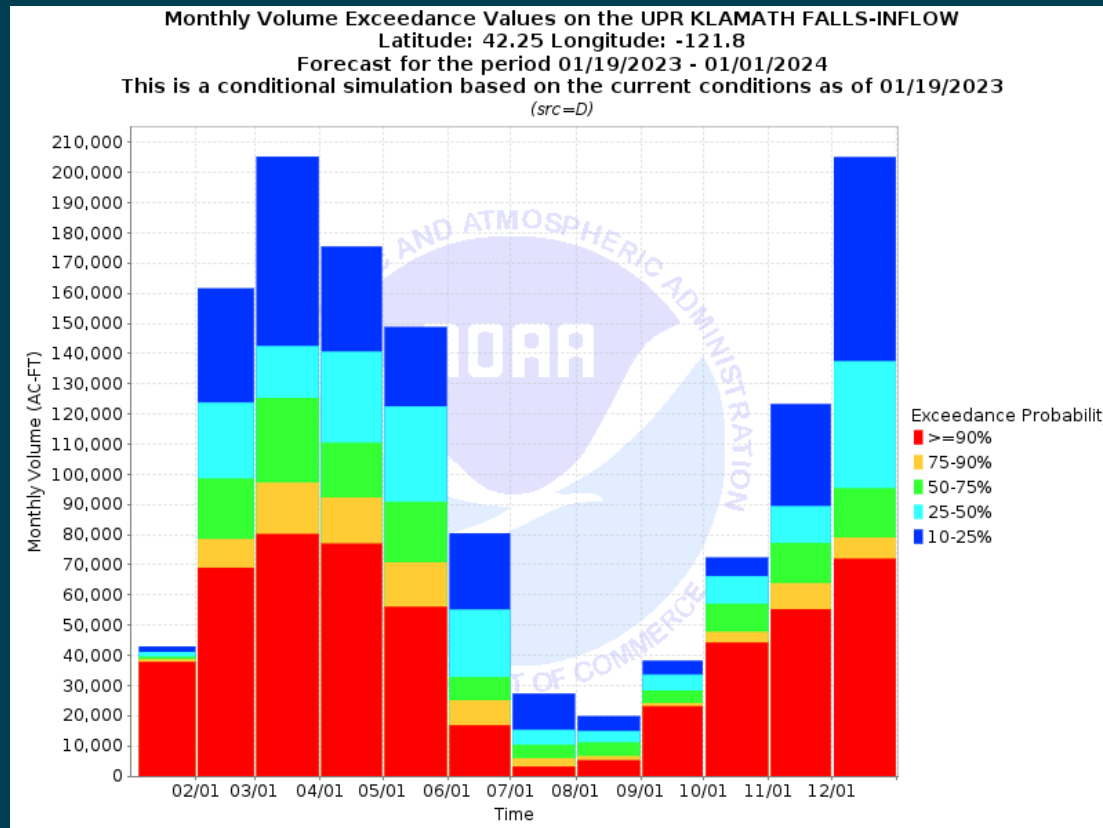
DATE	ELEVATION (FT)
1/5/2023	4140.02
1/6/2023	4140.06
1/7/2023	4140.07
1/8/2023	4140.12
1/9/2023	4140.17
1/10/2023	4140.22
1/11/2023	4140.25
1/12/2023	4140.28
1/13/2023	4140.31
1/14/2023	4140.36
1/15/2023	4140.41
1/16/2023	4140.44
1/17/2023	4140.46
1/18/2023	4140.48



# Upper Klamath Lake (UKL) Net Inflow Forecast – CNRFC 10-Day



# Upper Klamath Lake (UKL) Net Inflow Forecast – CNRFC WY2023



Monthly Streamflow Volume (1000s of Acre-Feet)												
Data Updated: Jan 19 2023 at 9:28 AM PST												
Prob	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
10%	118.2	161.5	205.2	175.4	148.7	80.5	27.3	19.7	38.2	72.3	123.2	205.0
25%	116.3	123.7	142.4	140.6	122.5	55.1	15.2	14.8	33.5	66.2	89.4	137.4
50%	114.6	98.5	125.3	110.3	90.8	32.7	10.3	11.0	28.4	57.1	77.2	95.3
75%	113.9	78.5	97.2	92.3	70.8	25.1	5.9	6.5	24.2	47.7	63.8	79.0
90%	113.0	69.0	80.1	76.9	56.0	16.8	3.2	5.1	23.0	44.2	55.3	71.9
Mean	136.3	136.1	171.9	152.0	124.5	62.0	22.8	25.3	46.5	72.9	97.6	124.9
%Mean	84.1	72.4	72.9	72.6	72.9	52.7	45.2	43.5	61.1	78.3	79.1	76.3





# NRCS Jan 1 Klamath River Basin (KRB) Water Supply Forecast (WSF)

USDA NRCS National Water & Climate Center

\* - DATA CURRENT AS OF: January 05, 2023 09:41:05 AM

- Based on January 01, 2023 forecast values

## KLAMATH RIVER BASIN

Forecast Point	period	50% (KAF)	% of med	max (KAF)	30% (KAF)	70% (KAF)	min (KAF)	30-yr med
Gerber Reservoir Inflow (2)	JAN-JUN	60	182	86	71	50	35	33
Sprague R nr Chiloquin	JAN-SEP	370	142	585	450	295	200	260
	MAR-SEP	280	130	465	350	215	140	215
Williamson R bl Sprague R nr Chiloquin	JAN-SEP	570	121	780	655	480	355	470
	MAR-SEP	435	121	620	510	360	250	360
Upper Klamath Lake Inflow (2)	JAN-SEP	900	119	1410	1050	765	505	755
	MAR-SEP	615	118	1030	735	505	305	520

Max (10%), 30%, 50%, 70% and Min (90%) chance that actual volume will exceed forecast.  
Medians are for the 1991-2020 period.  
All volumes are in thousands of acre-feet.

### footnotes:

- 1) Max and Min are 5% and 95% chance that actual volume will exceed forecast
- 2) streamflow is adjusted for upstream storage



# NRCS Jan Mid-Month KRB WSF

## KLAMATH RIVER BASIN

Forecast Point	period	50% (KAF)	% of med	max (KAF)	30% (KAF)	70% (KAF)	min (KAF)	30-yr med
Sprague R nr Chiloquin	FEB-SEP	330	138	505	395	270	191	240
	MAR-SEP	285	133	445	345	230	162	215
Williamson R bl Sprague R nr Chiloquin	FEB-SEP	500	119	680	575	430	325	420
	MAR-SEP	435	121	590	500	370	275	360
Upper Klamath Lake Inflow (2)	FEB-SEP	750	120	1150	865	640	430	625
	MAR-SEP	615	118	970	715	520	340	520

Max (10%), 30%, 50%, 70% and Min (90%) chance that actual volume will exceed forecast.

Medians are for the 1991-2020 period.

All volumes are in thousands of acre-feet.

### footnotes:

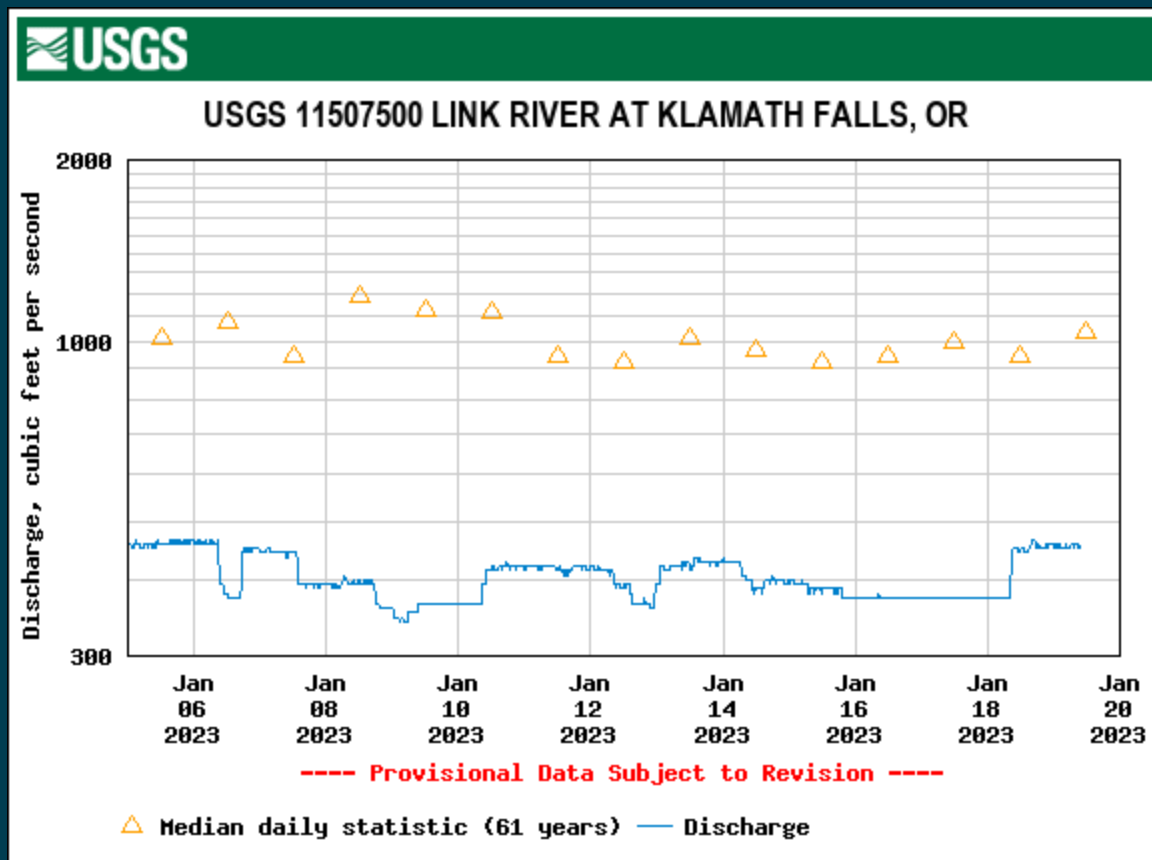
1) Max and Min are 5% and 95% chance that actual volume will exceed forecast

2) streamflow is adjusted for upstream storage

The net outcome remains, overall, a current best-estimate prediction of significantly above-normal spring-summer streamflow volumes reflecting a generally well above-normal mountain snowpack, with some basin-to-basin variability. Please note, however, that early-season forecasts like this January 15 prediction have comparatively low skill, as much of the winter-spring snowpack accumulation, the main source of prediction skill in operational WSF models, has yet to occur. This forecast uncertainty is reflected in the comparatively wide prediction intervals (given as the stated 10%, 30%, 70%, and 90% exceedance flows in the attached file) around the best estimate. Forecast product users should bear those uncertainty estimates in mind when interpreting the WSFs and using them for water resource decision-making.



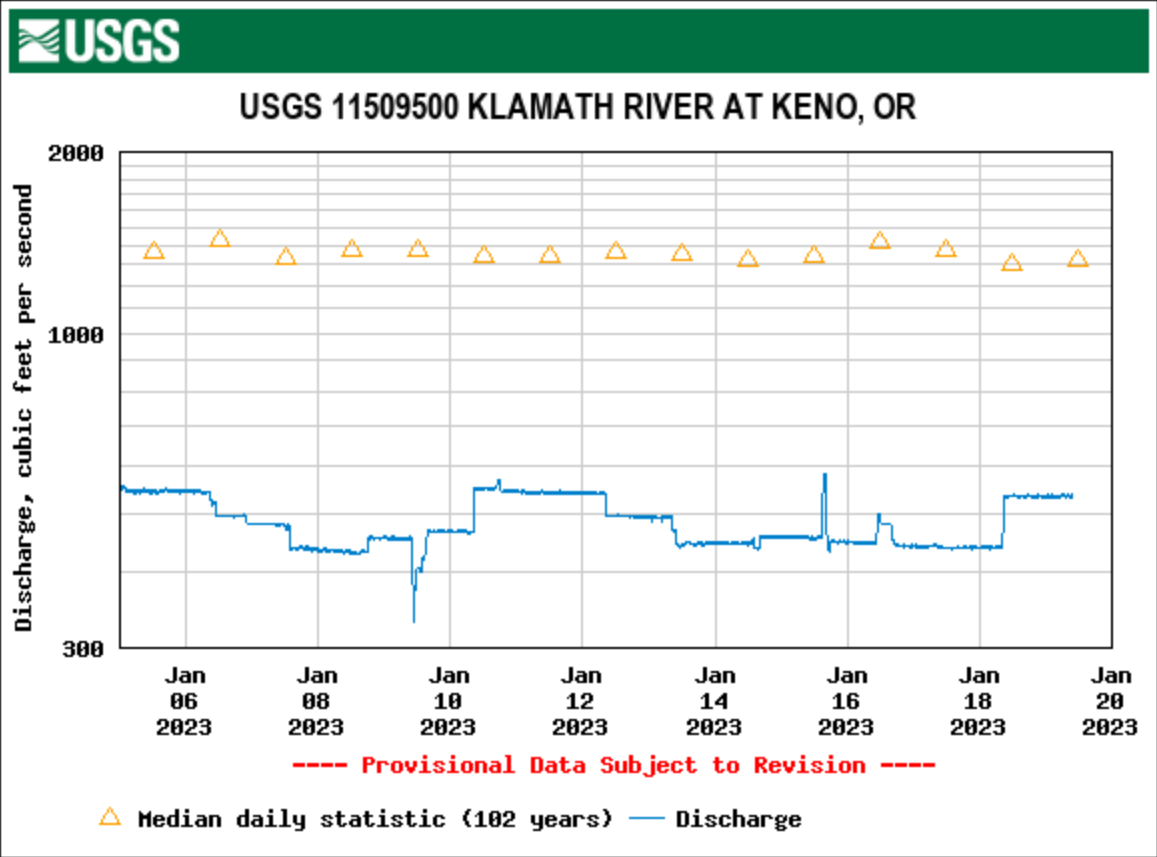
# Link River Dam- USGS 11507500



Min (1935)	25th percent- tile	Median	Most Recent Instantaneous Value Jan 19	75th percent- tile	Mean	Max (1974)
486	636	787	860	1030	1050	5650



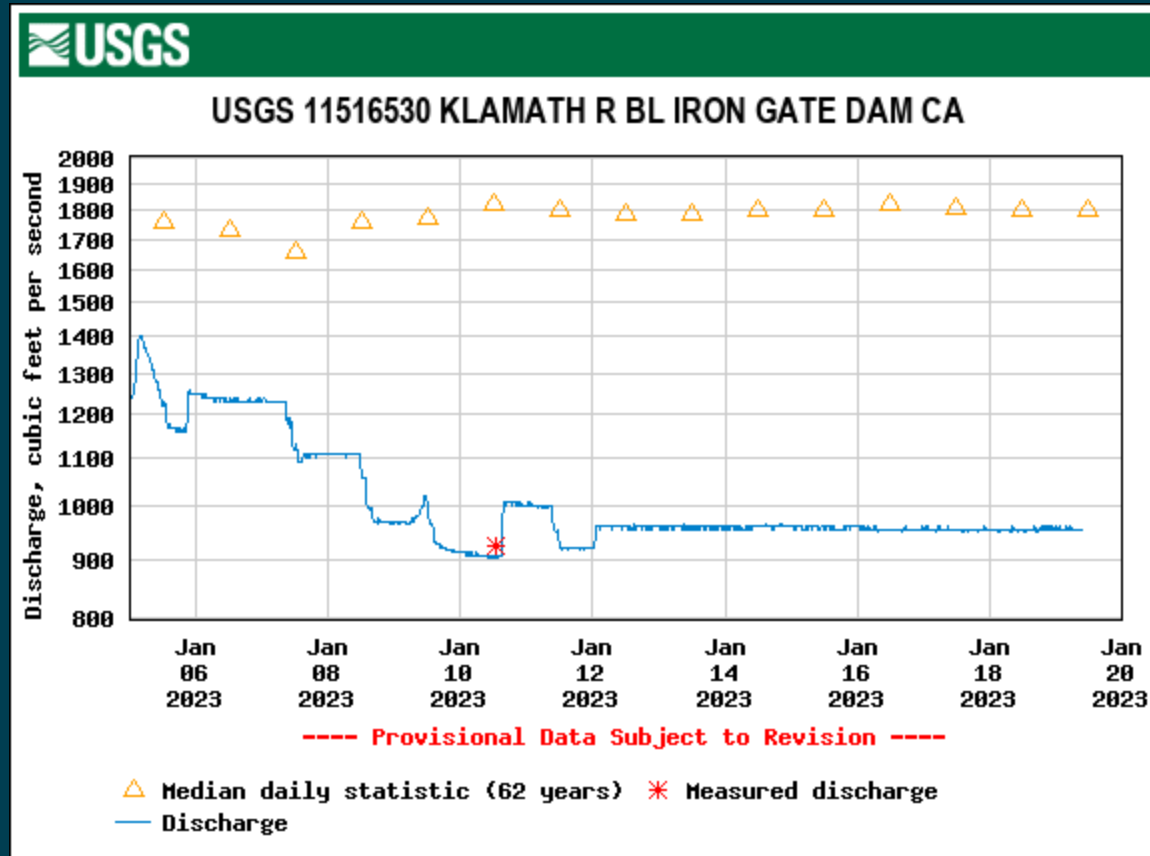
# Keno Dam – USGS 11509500



Min (1991)	Most Recent Instantaneous Value Jan 19	25th percentile	Median	Mean	75th percentile	Max (1965)
368	537	810	1320	1780	2440	7700



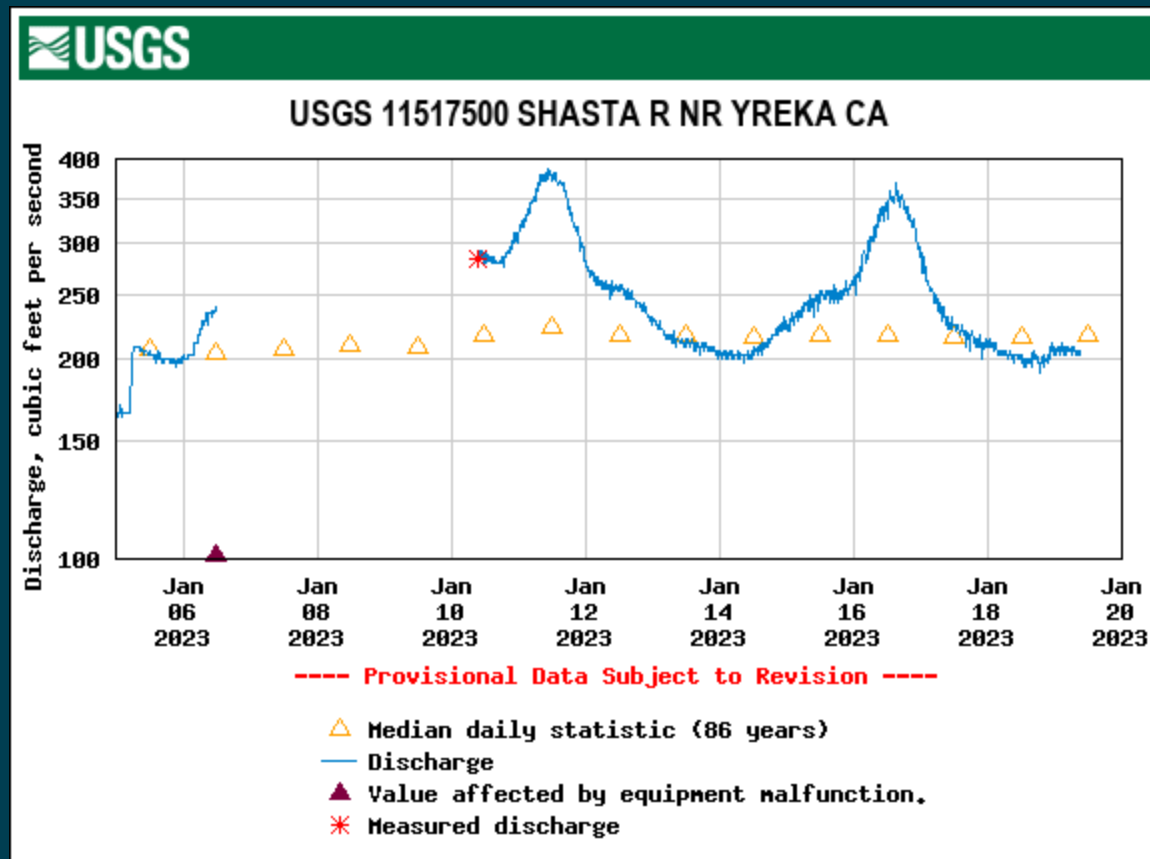
# Iron Gate Dam – USGS 11516530



Min (1991)	Most Recent Instantaneous Value Jan 19	25th percent- tile	Median	Mean	75th percent- tile	Max (1974)
755	954	1310	1800	2540	3150	9610



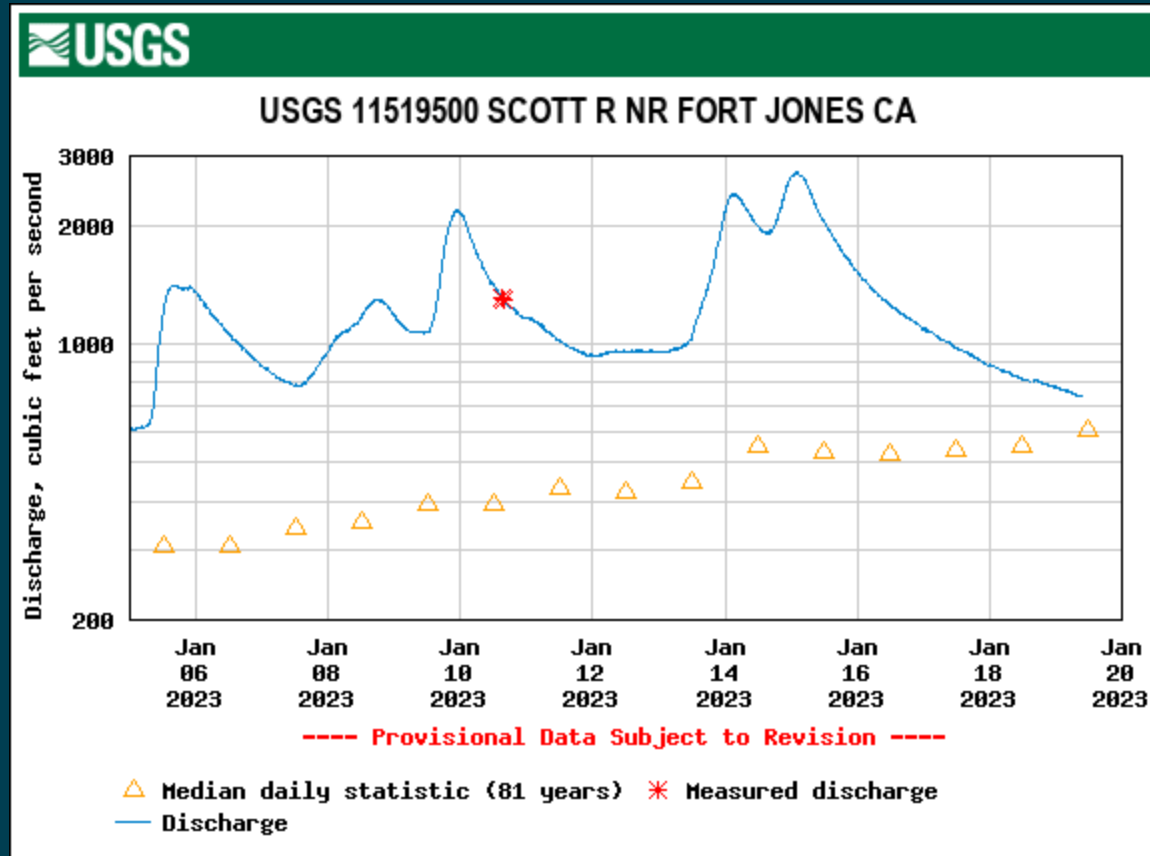
# Shasta River – USGS 11517500



Min (1937)	25th percen- tile	Most Recent Instantaneous Value Jan 19	Median	75th percen- tile	Mean	Max (1974)
108	180	205	217	350	357	2950



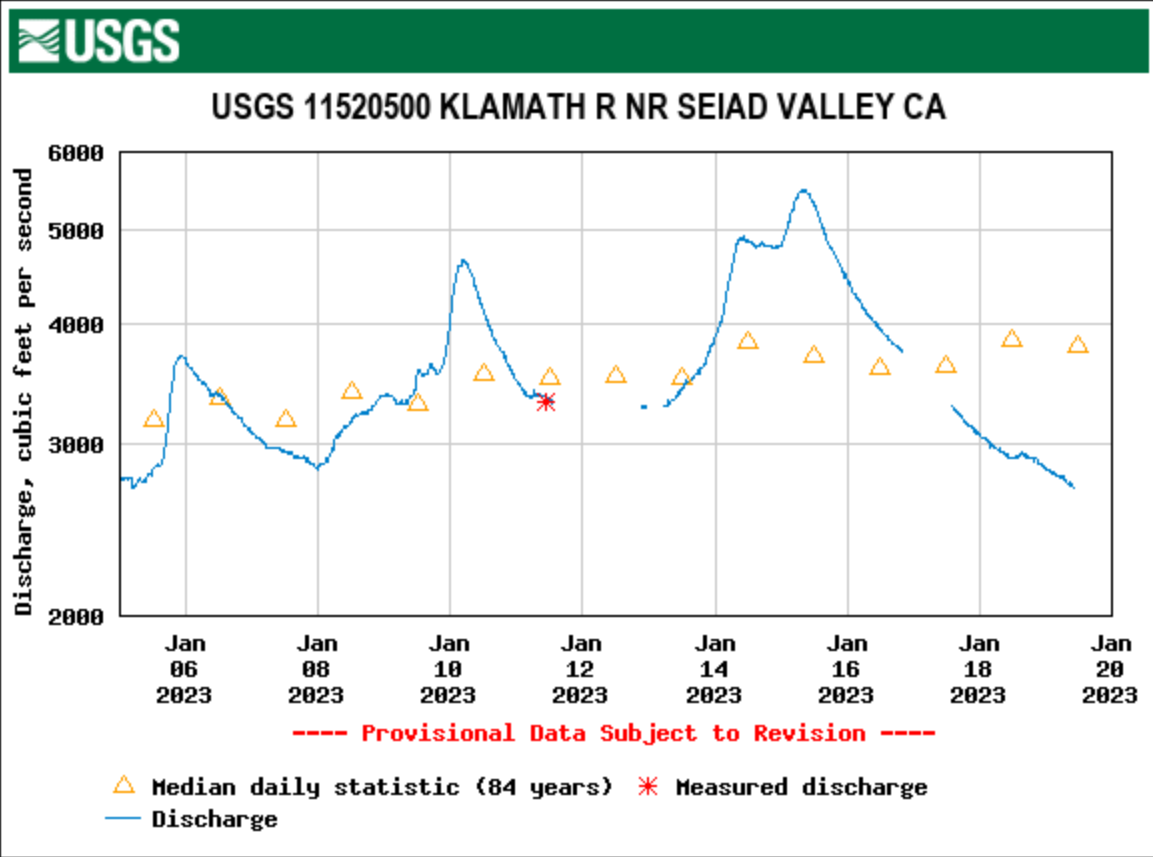
# Scott River – USGS 11519500



Min (2014)	25th percentile	Median	Most Recent Instantaneous Value Jan 19	Mean	75th percentile	Max (1953)
55.9	266	609	742	1230	1270	12400



# Klamath River – USGS 11520500

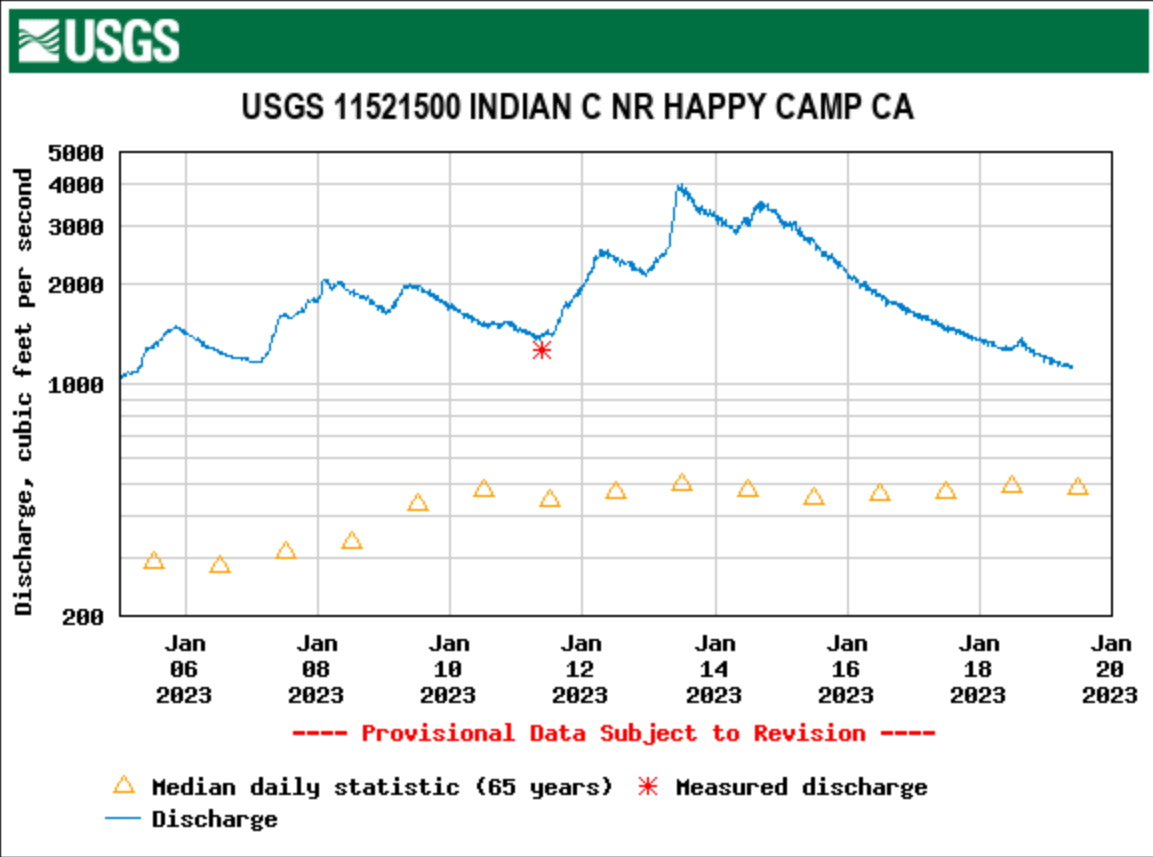


Min (2014)	25th percen- tile	Most Recent Instantaneous Value Jan 19	Median	Mean	75th percen- tile	Max (1953)
1300	2480	2730	3800	5980	6250	40100





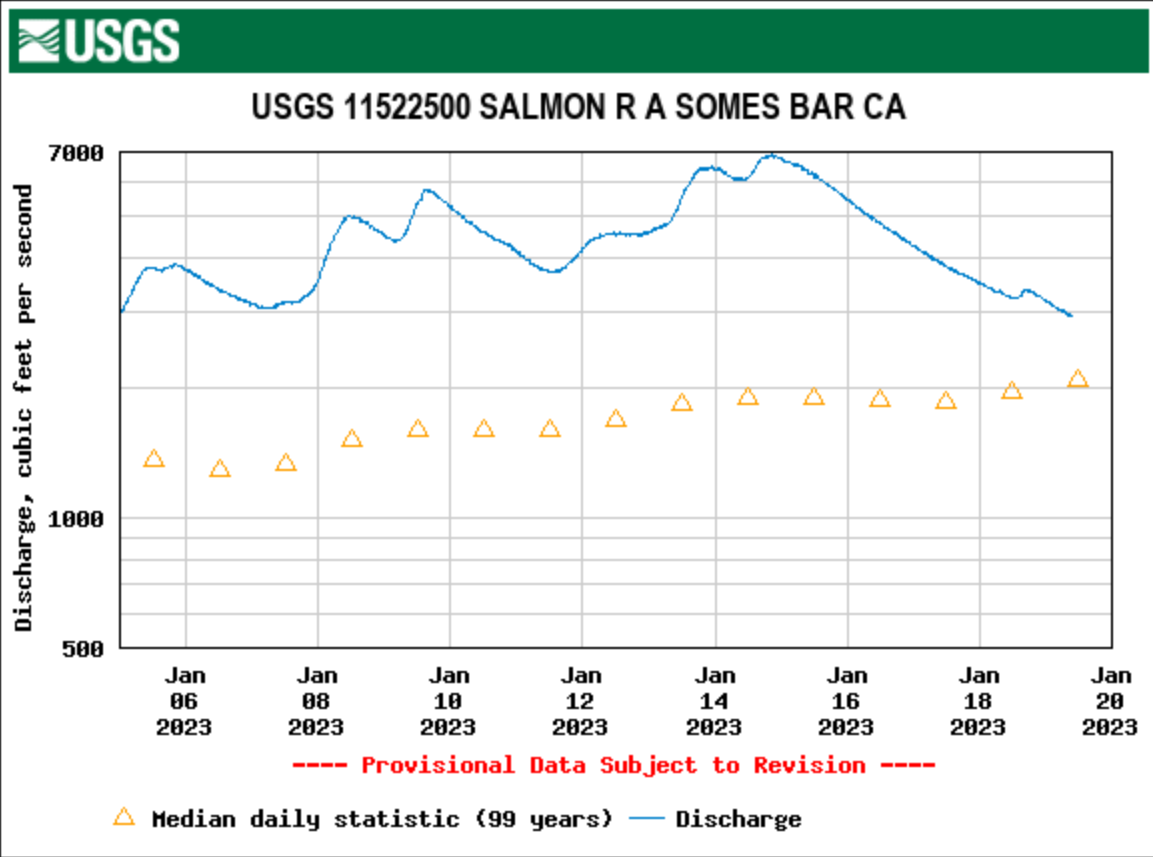
# Indian Creek – USGS 11521500



Min (1977)	25th percen- tile	Median	Mean	75th percen- tile	Most Recent Instantaneous Value Jan 19	Max (1974)
50.0	234	485	833	997	1140	4180



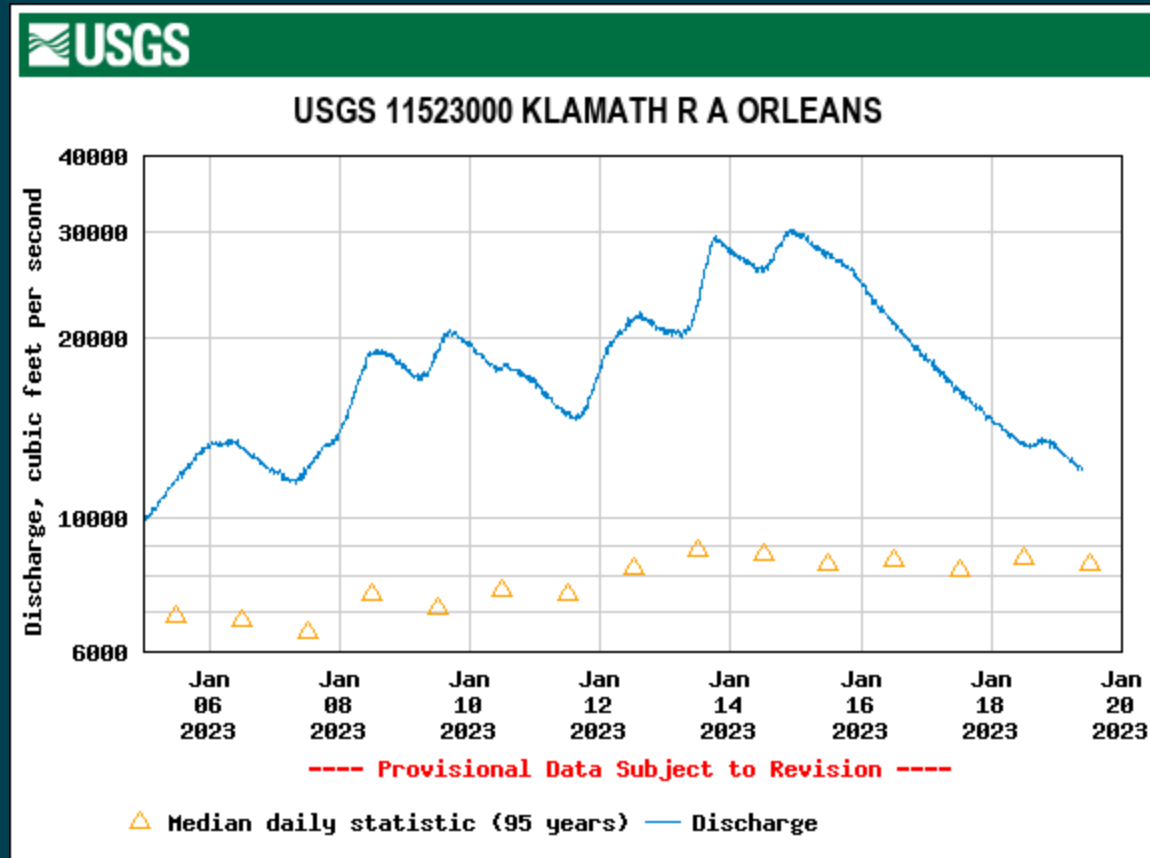
# Salmon River – USGS 11522500



Min (1937)	25th percent- tile	Median	Most Recent Instantaneous Value Jan 19	Mean	75th percent- tile	Max (1971)
212	1000	2080	2970	3450	3950	33300



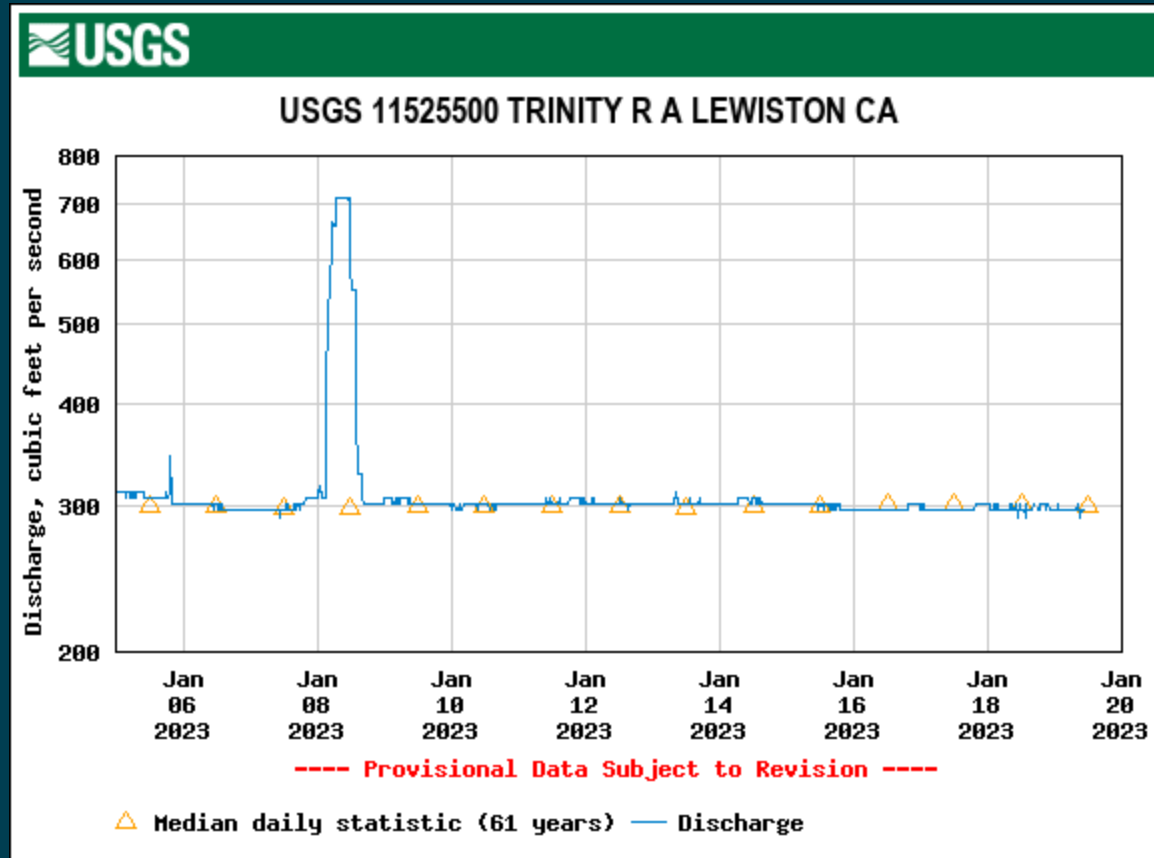
# Klamath River – USGS 11523000



Min (1937)	25th percen- tile	Median	Most Recent Instantaneous Value Jan 19	Mean	75th percen- tile	Max (1953)
1840	5440	8360	12200	15200	18200	108000



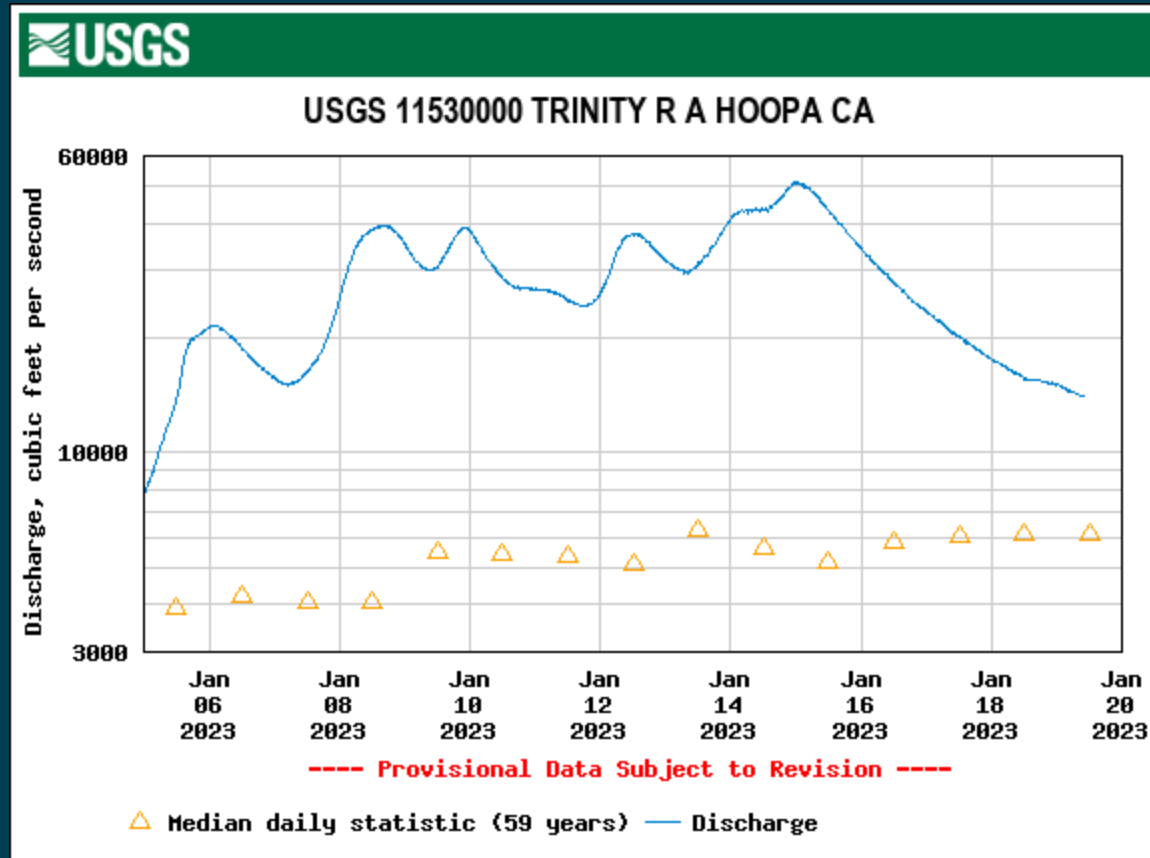
# Trinity River at Lewiston – USGS 11525500



Min (1977)	25th percentile	Most Recent Instantaneous Value Jan 19	Median	75th percentile	Mean	Max (1974)
145	240	297	301	314	706	13800



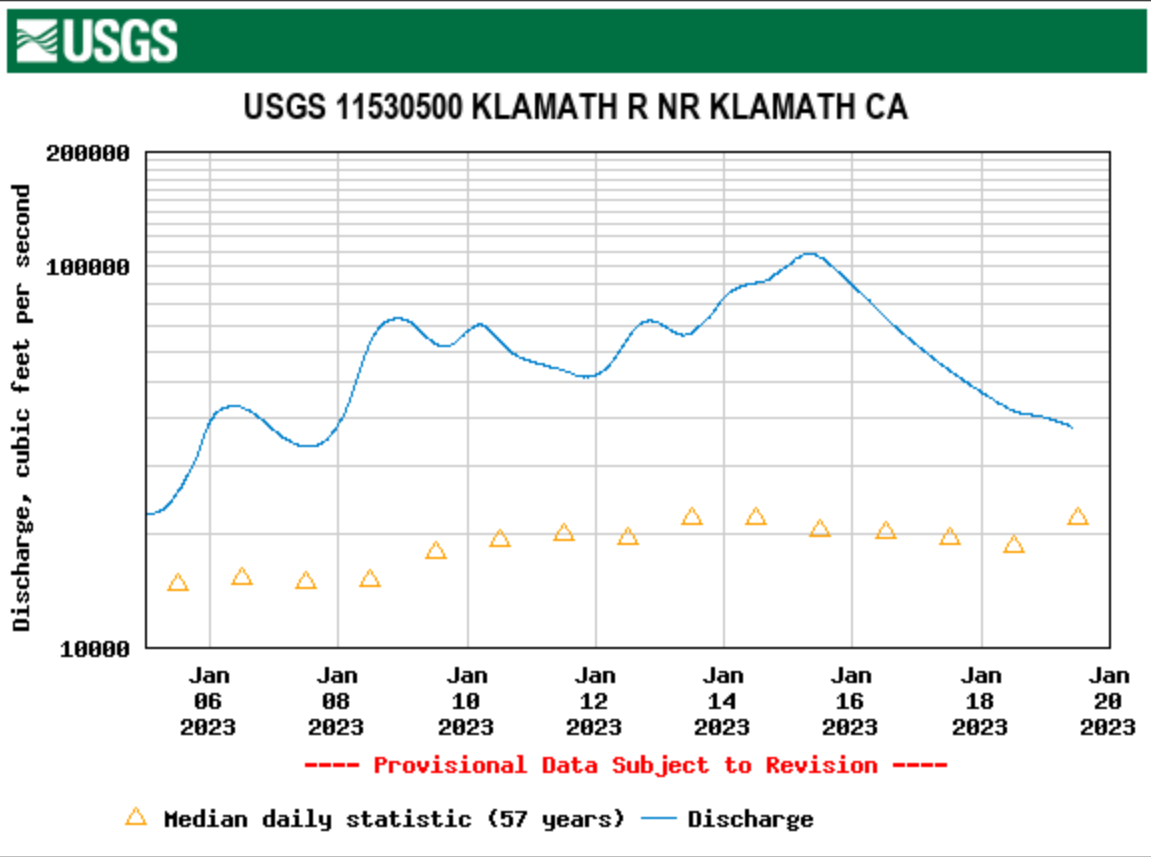
# Trinity River – USGS 11530000



Min (1977)	25th percent- tile	Median	Mean	Most Recent Instantaneous Value Jan 19	75th percent- tile	Max (1971)
709	3210	6110	11900	14100	14200	64700



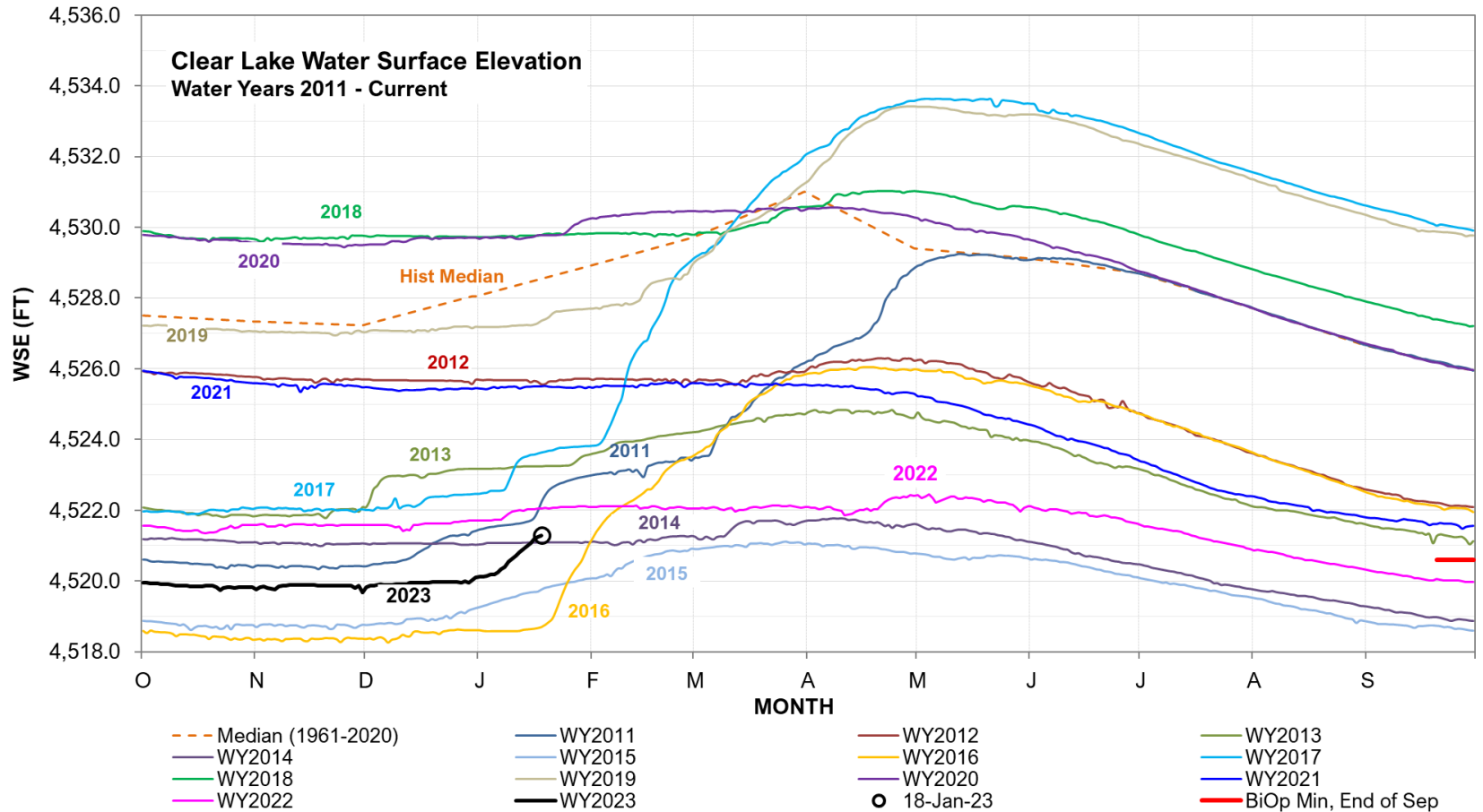
# Klamath River – USGS 11530500



Min (2014)	25th percen- tile	Median	Most Recent Instantaneous Value Jan 19	Mean	75th percen- tile	Max (1974)
3480	12800	21800	38100	38500	50500	191000



# Clear Lake Reservoir – USBR



# Gerber Reservoir – USBR

